



## Annual Public Health Report of the Province of Assam for the year 1945

By

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#### CHAPTER I

#### Meteorology, Economic Condition

1. Meteorology.—Climatic conditions did not show any marked variation from normal during any period of the year. Rainfall during the monsoon period was about normal but was in excess during the pre-monsoon and post-monsoon periods. The total rainfall was 105.99 inches during 1945 as compared to 96.18 in 1944 and 103.55 in 1943. The seasonal distribution of rainfall was as follows:—

|   |     | Actual rainfall<br>during 1945 | Departure from normal | Actual rainfall<br>during 1944 |
|---|-----|--------------------------------|-----------------------|--------------------------------|
| Cold weather period (January and February)      | ••• | 2.95                           | +.65                  | 2.49                           |
| Hot weather period (March to May)               | ••• | <b>2</b> 5·11                  | <b></b> ·58           | 25.42                          |
| Monsoon period (June to September)              | ••• | 69.73                          | +2.57                 | 62.37                          |
| Retreating monsoon period (October to December) | ••• | 8.20                           | +1.70                 | <b>5</b> ·90                   |
| Total   | ••• | 105.99                         | +4.34                 | 96.18                          |

Compared to last year, average rainfall was higher in the districts of Cachar, Goalpara, Kamrup,

Nowgong, Lakhimpur and Sylhet.

During the monsoon, local flooding occurred in all the plain districts excepting Lakhimpur, Sibsagar and Nowgong. In Goalpara district flood level reach the highest record of 1938, and in Sylhet, Kamrup and Darrang districts it also reached a high level. A cyclonic storm affected Goalpara district during the last part of October causing unusually wet weather.

As a result of floods, there was some damage to crops in various parts of the Province.

2. Economic conditions, etc.—The statement below, compiled from figures published in the Assam Gazette, gives the average quantity of common-rice sold per rupee during 1945, during the previous 4 years and the pre-war quinquennial average (1936-40).

|           | District    | :S   |     |     |     | 1936-40 | 1941   | 1942   | 1943        | 1944   | 1945   |
|-----------|-------------|------|-----|-----|-----|---------|--------|--------|-------------|--------|--------|
|           | 1           |      |     |     |     | 2       | 3      | 4      | 5           | 6      | 7      |
|           |             |      |     |     |     | S. ch.  | S. ch. | S. ch. | S. ch.      | S. ch. | S. ch, |
| Cachar    |             |      | ••  | • • | ••  | 12 6    | 7 12   | 6 13   | 2 11        | 2 1    | 3 4    |
| Sylhet    | • •         |      | ••  | • • | ••  | 11 7    | 7 5    | 6 5    | 2 8         | 3 3    | 3 8    |
| Goalpara  |             | . •• | • • | • • | ••  | 10 12   | 6 14   | 7 9    | 2 8         | 2 7    | 3 2    |
| Kamrup    | • •         | • •  |     |     |     | 10 14   | 7 10   | 7 1    | 2 6         | 2 8    | 2 10   |
| Darrang   | ••          |      | ••  | • • | ••  | 12 6    | 8 7    | 7 8    | 2 10        | 2 8    | 2 12   |
| Nowgong   | ••          | • •  | • • | • • | \   | 12 10   | 7 10   | 7 3    | 2 10        | 2 7    | 3 3    |
| Sibsagar  | • •         | • •  | • • | • • | ••  | 11 6    | 7 6    | 7 2    | 2 12        | 2 5    | 2 10   |
| Lakhimpur | <b>7.</b> . |      |     | ••  | • • | 11 6    | 7 12   | 7 2    | <b>3</b> 10 | 2 8    | 3 2,   |
| Avera     | age         |      |     |     | ••  | 11 10   | 7 10   | 7 l    | 2 10        | 2 8    | 3 4    |

The following statement shows the price indices of rice and the birth and death rates of Assam during 1945, during the previous 4 years and the pre-war quinquennial average. In calculating price index, 1936-40 period has been taken as "Base", i.e., 100.

|                  |            |     |     |     | 1936-40 | 1941  | 1942  | 1943  | 1944  | 1945  |
|------------------|------------|-----|-----|-----|---------|-------|-------|-------|-------|-------|
| Price index of c | ommon rice |     |     | • • | 100     | 153   | 184   | 444   | 465   | 358   |
| Birth rates      |            |     | • • | ••  | 27.90   | 26.70 | 21.53 | 19.06 | 16.77 | 16.76 |
| Death rates      | ••         | • • | ••  |     | 19.49   | 16.75 | 15.42 | 16.34 | 16.87 | 13.77 |

Rise in price level appears to be coincident with the fall in birth rate.

General economic conditions as reflected by living and health standards showed no improvement during

1945. The increased aggregate income of the province was off-set by the higher level of food prices.

Supply situation was on the whole better than the previous year, but the volume of supply remained inadequate. The distributing machinery for the essential commodities was not entirely satisfactory, especially in the rural areas.

Control of prices was more effective, and rationing system continued for all the essential commodities in

the towns and partially in the rural areas.

Though there was scarcity of certain essential articles of diet, e.g., mustard oil and dals, the province continued to remain a surplus province in respect of rice.

#### CHAPTER II

#### Vital statistics

- 3. Registration.—There was no improvement in the system of collection, compilation and publication of Vital Statistics of the Province during the year 1945. The primary agents for the collection of vital events remained the same-unpaid, mostly illiterate, indifferent and unwilling. The Assam Births and Death Registration Act of 1935 is compulsory only in 27 towns of the plains districts amongst a mid-year estimated population of 291,587 out of the total estimated population of 10,063,034.
- 4. Population.—The population of the eight plains districts of Assam to which this report mainly refers was 9,417,552 according to the 1941 census. The mid-year estimated population of the same area for the year 1945 calculated by the "Arithmetic Progression Method" was 10,063,034 (5,333,706 males and 4.729,328 females). Density of estimated population per square mile during 1945 was 322 as compared to 316 during 1944. The increase in the estimated population for the year was 148,957 (79,996 males and 68,961 females) in the 8 plains districts of the province.
- 5. Births and Birth-rate.—The total number of births registered during the year was 168,632 (86,103 males and 82,529 females) as compared to 166,276 of the previous year and the quinquennial average of 211,350. The birth-rate of the Province for the year 1945 was 16.76 as compared to 16.77 of the previous year and the quinquennial average of 22.46.

The number of male births to every 100 female births was 104, the quinquennial average being 108 to 100 female births.

The comparative birth-rates of the Provinces in India are shown in the following table.

| Provi      | nces       |        |       |     |     |     |       | 1945  | 1944           | 1940-44 |
|------------|------------|--------|-------|-----|-----|-----|-------|-------|----------------|---------|
| _ 1        |            | •      | •     |     |     |     |       | 2     | 3              | 4,      |
| Assam      | •••        | •••    | •••   | ••• | ••• | ••• | •••   | 16.76 | 16.77          | 22•46   |
| Bengal     | • • •      | •••    | •••   | ••• |     | ••• | •••   | 22.10 | 16.14          | 23.40   |
| Bihar      | •••        | •••    | • • • | ••• |     | ••• | •••   | 23.00 | 20.63          | 24.60   |
| Orissa     | •••        | •••    | •••   | ••• | ••• | ••• | •••   | 27:35 | 25.24          | •••     |
| United Pr  | rovinces   | •••    | •••   | ••• | ••• | ••• | •••   | 27:31 | 25.69          | 29.02   |
| Madras     | •••        | •••    | •••   | ••• | ••• | ••• | •••   | 28.45 | 29.39          | 34.40   |
| Bomhay     |            | •••    |       |     | ••• | ••• | •••   | 33.70 | 33.93          | 35.01   |
| Central P  | rovinces   |        | •••   | ••• | ••• | ••• | • • • | 39.33 | 37.98          | 38.88   |
| Punjab     | •••        | •••    |       | ••• | ••• | ••• | •••   | 36.10 | 3 <b>6</b> ·78 | 37.10   |
| North · We | st Frontie | er Pro | vince | ••• | ••• | ••• | •••   | 16.74 | 17.17          | 18.14   |
| Sind       | •••        | •••    | •••   | ••• | ••• | ••• | •••   | 14.33 | 14.94          | 16•42   |

6. Birth Registration, General.—The yearly decline in the number of births since 1942 has been checked during 1945, but the total for 1945 is still below the quinquennial average. The following table shows the number of births in urban and rural areas for each year since 1940. The slight increase during 1945 is a hopeful sign and may be indicative of the future trend.

| Year         |     | <u> </u> |       |     |       |       |     | Births in urban areas | Births in rual areas |
|--------------|-----|----------|-------|-----|-------|-------|-----|-----------------------|----------------------|
| 1940         | ••• | •••      | •••   | ••• | • • • | •••   | ••• | 6,901                 | 237,253              |
| 1941         | ••• | •••      | * *** | ••• | •••   | • • • | ••• | 7,373                 | 245,708              |
| 1942         |     | •••      | •••   | ••• | •••   | •••   |     | 5,272                 | 201,801              |
| 1943         | ••• | •••      | •••   | ••• | ••••  | •••   | ••• | 4,877                 | 181,287              |
| 1944         | ••• | •••      | •••   | ••• |       | •••   | ••• | 5,116                 | 161,160              |
| 19 <b>45</b> | ••• | •••      |       | ••• | •••   | •••   | ••• | 5,653                 | 162,979              |

It will be observed that the decline in the birth-rate coincided with the onset of war and disturbed conditions which seem to have had profound effect on family life, and that the increase in births was coincident with the cessation of hostilities on the frontiers of Assam and the improvement in the supply situation of essential food articles.

Mention must be made of the gross inaccuracy in the registration of vital events especially births which are more liable to be ignored by the unsatisfactory primary agents, though it is probable that there is not much year to year variation in the degrees of accuracy.

As in previous years, Cachar district recorded the highest birth-rate (23:46) and Kamrup district the lowest (11:24). The districts of Cachar, Sylhet, Darrang and Sibsagar had birth-rates above the provincial average (16:76) while the remaining four districts below it. The highest seasonal birth-rate was recorded in November (23:92) followed by December (23:21) and the lowest birth-rate was recorded in May (12:27). Seasonal birth-rates by months are given below:—

| Months    |       |        |     |     |       |       |       | 1945  | 1944  |
|-----------|-------|--------|-----|-----|-------|-------|-------|-------|-------|
| January   | • • • | •••    | ••• | ••• | •••   | •••   | •••   | 17.89 | 19.60 |
| February  | • • • | ***    | ••• | ••• | • • • | • • • | • • • | 17.71 | 20.79 |
| March     | •••   | •••    | ••• | ••• | * * * | •••   | • • • | 14.98 | 18.01 |
| April     | •••   | •••    | ••• | ••• | •••   | • • • | •••   | 14.47 | 16.80 |
| May       | •••   | •••    | ••• | ••• | •••   | •••   | •••   | 12.27 | 14:30 |
| June      | •••   | •••    | ••• | ••• | • • • | ***   | ***   | 12.95 | 14.17 |
| July      | •••   | ***    | ••• | ••• | •••   | •••   | •••   | 14.08 | 14.10 |
| August    | •••   | ar • • | ••• | ••• | •••   | •••   | •••   | 13.24 | 14:30 |
| September | •••   |        | ••• | ••• | •••   | • • • | •••   | 17.65 | 15.10 |
| October   |       |        | ••• | *** | •••   | ***   | •••   | 18.86 | 17.67 |
| November  | •••   | •••    |     |     |       |       |       | 23.92 | 18.21 |
| December  |       |        | ••• | ••• | •••   | •••   | •     | 23.21 | 17.82 |
| December  | • • • | •••    | ••• | ••• | • • • | • • • | • • • | 20 21 | 1102  |

During the year births exceeded deaths by 34,096, while the most disturbing and abnormal feature of 1944 was the excess of deaths over births by 932.

- 7. Birth Registration in Urban Areas.—The total number of births registered in the Urban Areas during the year was 5,653 (19·38 per mille of population) as compared to 5,116 (17·94) during 1944 and the quinquennial average of 5,908 (22·67). Out of 27 towns in the province, one town recorded birth-rate below 10 per mille, nine towns between 10 and 15 per mille, seven towns between 15 and 20 per mille, five towns between 20 and 25 per mille, one town between 25 and 30 per mille and four towns between 30 and 35 per mille of population. The highest birth-rate (34·56) was recorded by Sunamganj followed by Goalpara (33·01), Nowgong (32·24) and Palasbari (30·82). Haflong town recorded the lowest birth-rate (3·69) during this year.
- 8. Birth Registration in Rural areas.—The total number of births registered in rural circles during 1945 was 162,979 (16.68 per mille) as compared to 1,61,160 (16.74 per mille) during 1944, and the quinquennial average of 2,05,442 (22.46). Kalaigaon registration circle in Darrang district recorded the highest birth-rate (39.56) while Boko circle in Kamrup district recorded the lowest rate (1.41) Kamrup rural circles generally show much lower rates, probably due to defective registration.
- 9. Deaths and Death-rate.—The number of deaths registered during the year was 1,34,536 (70,419 males and 64,117 females) as compared to 167,208 of the previous year and the quinquennial average of 1,56,504. The death-rate for the year 1945 was 13·37 as compared to 16·87 of the previous year and the quinquennial average of 16·51. There was a decrease of 32,672 deaths during 1945 as compared to the previous year.

A comparative statement of the death rates of the Provinces in India is given below:—

| Provinces          | •          |       |       |       |        | Death-rate |         |  |
|--------------------|------------|-------|-------|-------|--------|------------|---------|--|
| Provinces          |            |       |       |       | 1945 , | 1944       | 1940-44 |  |
| 1                  |            |       |       |       | 2      | 3          | 4       |  |
| Assam              | •••        | • • • | •••   | •••   | 13.37  | 16.87      | 16•51   |  |
| Bengal             | •••        | •••   | •••   | •••   | 21.00  | 29.12      | 24.30   |  |
| Bihar              | •••        | •••   | •••   | •••   | 20.70  | 22.19      | 18.80   |  |
| Orissa             | •••        | •••   | •••   | • • • | 28.68  | 30•36      | •••     |  |
| United Provinces   | •••        | •••   | • • • | •••   | 18.95  | 18.74      | 19.50   |  |
| Madras             | •••        | •••   | •••   | • • • | 22.27  | 25.40      | 24.78   |  |
| Bombay             | •••        | • • • | •••   | * * * | 26.40  | 25.47      | 24.75   |  |
| Central Provinces  | •••        | •••   | •••   | •••   | 39.32  | 30.12      | 30.69   |  |
| Punjab             | •••        | •••   | ***   | •••   | 19•40  | 25.26      | 25.40   |  |
| North-West Frontie | r Province | •••   |       | * * * | 11.14  | 13.97      | 15.63   |  |
| Sind               |            | •••   | •••   | •••   | 10.23  | 11.86      | 12.04   |  |

All the districts except Cachar recorded death-rates below their quinquennial average. The highest death-rates (20:00) was recorded in Cachar district and lowest (7:24) in Kamrup district. Both districts of Surma Valley recorded higher death-rates than the Assam Valley districts.

The following table gives the number of deaths reported from each district during 1945 and 1944, showing increase or decrease as compared to the previous year.

| District  |     |     |       |       |       | Deaths<br>during 1945 | Deaths<br>during 1944 | Decrease or increase in 1945 |
|-----------|-----|-----|-------|-------|-------|-----------------------|-----------------------|------------------------------|
| Cachar    | ••• | ••• | •••   | •••   | •••   | 12,687                | 15,955                | — <b>3</b> ,268              |
| Sylhet    | ••• | ••• |       |       | •••   | 53,005                | 76,159                | -23,154                      |
| Goalpara  | ••• |     | •••   | •••   | •••   | 14,831                | 16,872                | -2,041                       |
| Kamrup    | ••• | ••• | •••   | •••   | •••   | 10,050                | 10,196                | —146                         |
| Darrang   | ••• | ••• | •••   | •••   |       | 11,259                | 12,207                | 948                          |
| Nowgong   | ••• | ••• | •••   | •••   | •••   | 6,507                 | 7,909                 | <b>—</b> 1,402               |
| Sibsagar  |     | ••• | •••   |       | * * * | 15,576                | 14,627                | +949                         |
| Lakhimpur | ••• | ••• | •••   | •••   | •••   | 10,621                | 13,283                | -2,662                       |
|           |     |     | Total | 5 + + | •••   | 134,536               | 167,208               | —32 672                      |

The increase in the number of deaths in Sibsagar district is attributable to the recrudescence of Kala-Azar, higher incidence of Fevers and prevalence of Small-pox and Cholera in the district. The decrease in the total mortality of the Surma Valley districts is mainly due to the decrease in the incidence of Malaria and Small-pox which prevailed there during the previous year.

10. Deaths and Death-rate in Urban Areas.—The total number of deaths registered in Urban areas during the year was 3,136 as compared to 5,038 of the preceding year and the quinquennial average of 4,085. The average death-rate in the Urban areas was 10.75 as compared to 17.67 of the preceding year and th quinquennial average of 15.38. As in last year, Sunamganj town recorded the highest death-rate (23.28) during 1945. The lowest death-rate (3.53) was returned from Mangaldai town. One town recorded death-rate below 5 per mille, 12 towns between 5 and 10 per mille, 7 towns between 10 and 15 per mille, 6 towns between 10 and 20 per mille and 1 town between 20 and 25 per mille of population.

The statement below gives the number of deaths registered under each of the 7 main heads of mortality during 1945 and 1944:—

| Causes of mortality     |       |       |       | 1945  | 1944  | Increase or decrease during 1945 |
|-------------------------|-------|-------|-------|-------|-------|----------------------------------|
| 1                       |       |       |       | 2     | 3     | 4                                |
| Cholera                 | • • • | •••   | •••   | 70    | 109   | 39                               |
| Small-pox               | • • • | •••   | •••   | 74    | 409   | —335                             |
| Levers                  | •••   | •••   | •••   | 1,089 | 1,624 | <b>—535</b>                      |
| Dysentery and Diarrhoea | •••   | •••   | · ••• | 341   | 656   | 315                              |
| Respiratory diseases    | •••   | •••   | •••   | 234   | 338   | <b>—104</b>                      |
| Injuries                | •••   | •••   | •••   | 90    | 142   | —52                              |
| All other causes        | •••   | •••   | •••   | 1,238 | 1,760 | —522                             |
|                         |       |       |       | \$    |       |                                  |
|                         | Total | • • • |       | 3,136 | 5,038 | -1,902                           |
|                         |       |       |       |       |       |                                  |

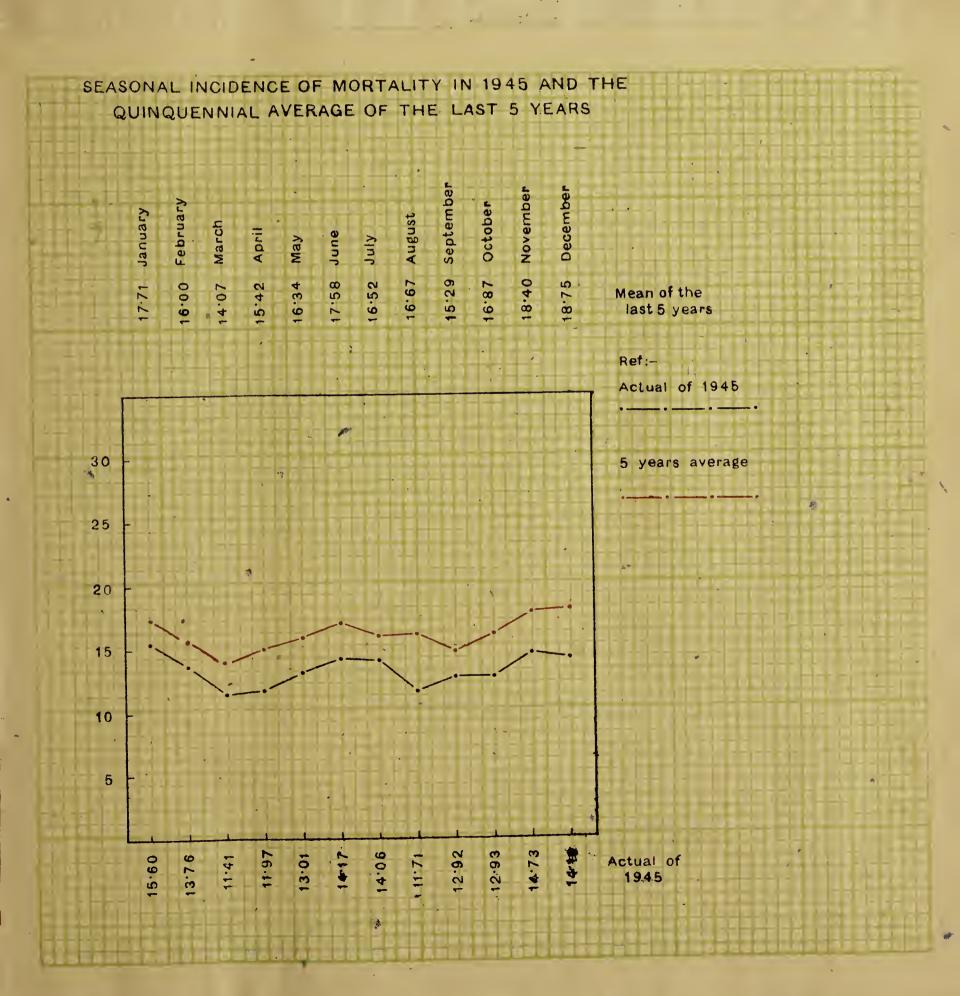
<sup>11.</sup> Deaths and Death-rate in Rural Areas.—There were 131,400 deaths in rural areas during 1945 as compared to 162,170 during 1944 and the quinquennial average of 152,419 giving a death-rate of 13.45 during 1945 as against 16.84 during 1944 and the quinquennial average of 16.54. With the exception of Sibsagar district, the rural areas of all districts recorded death-rates lower than those recorded in the previous year.

The total number of deaths in rural circles under each of the main causes of mortality during 1945 and 1944 are given below, showing increase or decrease during the year:—

| Causes of mo | rtality   |       | . ,   |       |       | 1975    | 1944    | Increase or de<br>during 194 |   |
|--------------|-----------|-------|-------|-------|-------|---------|---------|------------------------------|---|
| 1            |           | a a   |       |       |       | 2       | 3       | 4.                           |   |
| Cholera      | •••       | •••   | • • • | •••   |       | 2,960   | 3,998   | -1,038                       |   |
| Small-pox    | •••       | •••   | •••   | • • • | • • • | 3,764   | 11,319  | <b>—7,555</b>                |   |
| Fevers       | •••       | • • • | •••   | 4     | • • • | 86,903  | 102,759 | -15,856                      |   |
| Dysentery a: | nd Diarrh | oea   | •••   |       |       | 8,545   | 10,444  | 1,899                        |   |
| Respiratory  | diseases  | •••   | •••   | • • • |       | . 3,317 | 4,182   | 865                          |   |
| Injuries     | • • •     | •••   | •••   |       | ***   | 1,131   | 1,513   | 382                          |   |
| All other ca | uses      | •••   | •••   | •••   | • • • | 24,780  | 27,955  | -3,175                       |   |
|              |           |       | Tota  | ıl    | •••   | 131,400 | 162,170 | -30,770                      | 6 |

The highest death-rate (29.40) was recorded in Jaintiapur circle of Sylhet district. Other rural circles recording high death-rates were Madhabpur (28.94), Kanaighat (26.12) in Sylhet district and Margherita (28.56) in Lakhimpur district. The lowest death-rate (1.03) was returned from Sorbhog rural circle in Kamrup district.

12. Seasonal variations in mortality.—Highest death-rate (15:60) was recorded during the month of January and the lowest (11:41) in the month of March 1945. The graph below shows the monthly mortality during 1945 as compared to the seasonal quinquennial average of the Province.



It would be observed that the mortality curve follows the average quinquennial curve.

13. Mortality According to Age and Sex.—During the year a total of 70,419 males and 64,117 females died as compared to 88,629 males and 78,579 females during 1944 and the quinquennial average of 80,520 males and 73,984 females. Female death-rate exceeded male death-rate in the districts of Cachar, Kamrup, Darrang, Nowgong, Sibsagar and Lakhimpur.

The following table shows the rate of mortality by sex and age group for the years 1945 and 1944 and the quinquennial average:—

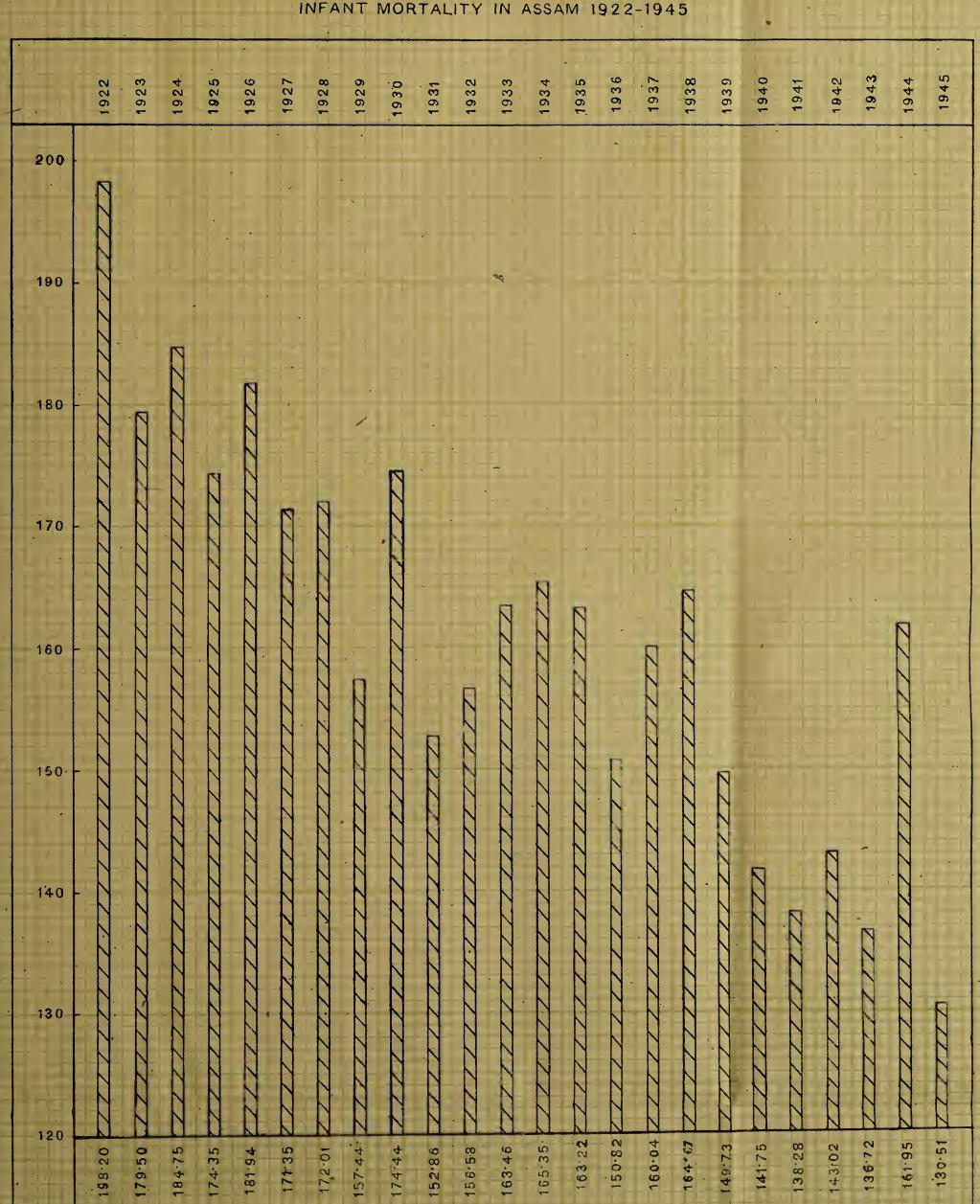
|     |               | 1945         |            |        | 1944   | Average | of 1940-44        |
|-----|---------------|--------------|------------|--------|--------|---------|-------------------|
|     | Age groups    | Male         | Female     | Male   | Female | Male    | Female            |
|     | 1             | 2            | <b>3</b> , | 4      | 5      | 6       | . 7               |
| Uno | der one year  | 137.68       | 123.02     | 165.77 | 157.78 | 148.25  | · 13 <b>5·1</b> 2 |
|     | 1 to 5 years  | 16.15        | 15.38      | 19.49  | 18.49  | 17.78   | 16.56             |
|     | 5' ,, 10 ,,   | <b>6</b> ·62 | 6.45       | 10.49  | 10.16  | 8.83    | 8.57              |
| 1   | 0 ,, 15 ,,    | 5.70         | 6.34       | 8.28   | 7.70   | 7.17    | 6.30              |
| 1   | 5 ,, 20 ,,    | 8.25         | 9.52       | 11.18  | 10.92  | 8.93    | 10.08             |
| 2   | 0 ,, 30 ,,    | 6.52         | 8.88       | 8.46   | 10.47  | 8.04    | 11· <b>2</b> 8    |
| 3   | 0 ' ,, 40 ,,  | 9.66         | 10.65      | 10.49  | 13.98  | 10.45   | 12.72             |
| 4   | 0 ,, 50 ,,    | 14.23        | 13.01      | 15.15  | 12.13  | 14.86   | 11.88             |
| 5   | 0, 60 ,,      | 17.14        | 18.40      | 27.40  | 29.82  | 24.23   | 24.12             |
| - 6 | 0 and upwards | 51.10        | 51.65      | 78.95  | 64.48  | 65.39   | 59.90             |
|     | Total '       | . 13.20      | 13.37      | 16.87  | 16.86  | 16.46   | 16.58             |

As usual, female death-rate exceeded male death-rate, in the age groups 15 to 40 due to stress and strain of child-bearing and the inadequacy of measures for maternity relief.

14. Infantile Mortality.—The following table shows the number of deaths and death-rates amongst infants calculated on live births during each year for 1945 and the previous decennium:—

| 37      |         | Births  |         |                | Deaths of inf | ants   | Death-rate of infants |        |                |
|---------|---------|---------|---------|----------------|---------------|--------|-----------------------|--------|----------------|
| Years c | Male    | Female  | Total   | Male           | Female        | Total  | Male                  | Female | Total          |
| 1 ~     | 2       | 3       | 4       | 5              | 6             | 7      | 8                     | 9      | 10             |
| 1935    | 123,668 | 116,230 | 239,898 | 21,015         | 18,140        | 39,155 | 169.93                | 156.07 | 163.22         |
| 1936    | 123,839 | 115,865 | 239,704 | 19,630         | 16,522        | 36,152 | 158· <b>5</b> 1       | 142.59 | 150.82         |
| 1937    | 128,233 | 119,991 | 248,224 | 21,350         | 18,377        | 39,727 | 166.49                | 153.15 | 160.04         |
| 1938    | 122,346 | 114,834 | 237,180 | 21,074         | 17,983        | 39,057 | 172.25                | 156.60 | 164.67         |
| 1939    | 125,573 | 116,855 | 242,428 | 19,666         | 16,633        | 36,299 | 156.61                | 142.34 | 149.73         |
| 1940    | 126,846 | 117,308 | 244,154 | <b>18</b> ,806 | 15,804        | 34,610 | 148.26                | 134.72 | 141.75         |
| 1941    | 131,021 | 122,060 | 253,081 | 19,018         | 15,362        | 34,380 | 147.50                | 128.55 | 138-28         |
| 1942    | 106,832 | 100,241 | 207,073 | 15,279         | 12,992        | 28,271 | 143.02                | 129.61 | <b>136·5</b> 3 |
| 1943    | 96,136  | 90,028  | 186,164 | 13,144         | 11,248        | 24,392 | 136.72                | 124.94 | 131.02         |
| 1944    | 87,049  | 79,227  | 166,276 | 14,430         | 12,499        | 26,929 | 165.77                | 157.78 | 161.95         |
| 1945    | 86,103  | 82,529  | 168,632 | .11,855        | 10,153        | 22,008 | 137.68                | 123.02 | 130.51         |

The infantile mortality rate showed an appreciable fall during 1945 (130.51) as compared to the previous year (161.95), but the rate for 1944 was abnormally high probably due to the cumulative effect of war conditions and scarcity of protective foods. The number of infant deaths (under one year of age) registered during the year was 22,008 (11.855 boys and 10,153 girls) as compared to 26,929 during the previous years. Infantile deaths constitute 16.4 per cent. of the total mortality in the province. Of the total infant deaths 9,519 or 43 per cent. died within one month of birth, 7,489 or 34 per cent. during the age-period 'one to six months' and 5,000 or 23 per cent. during the period 'six to twelve months'. For every 100 female births, 104 males were born and for every 100 female infant deaths 117 male infants died during the year.



• . . . 21 1

The infant mortality rate of Assam for 1945 is compared in the following table with that of the other provinces:—

| Province      |         |          |      |       |       |            |     |       | Infant mortality<br>rate (1945) |
|---------------|---------|----------|------|-------|-------|------------|-----|-------|---------------------------------|
| Assam         | •••     | •••      | •••  | •••   | •••   | ~**        | ••• | •••   | 130.21                          |
| Bengal        | •••     | •••      | •••  | •••   | •••   | ,<br>, , , | ••• | • • • | 143.20                          |
| Bihar         | •••     | •••      | •••  | •••   | _     | • • •      | ••• | •••   | 100.10                          |
| Orissa        | • • •   | •••      | •••  | •••   | •••   | •••        | ••• | •••   | 178.10                          |
| Central Provi | nces    | •••      | •••  | •••   | •••   | ***        | ••• | • • • | 256.68                          |
| Madras        | •••     | •••      | •••  | •••   | * * * | • • •      | ••• | •••   | 169.43                          |
| Bombay        |         | •••      | •••  | •••   | * * * | • • •      | ••• | * * * | 161.23                          |
| United Provin | ices    |          |      | •••   | •••   | 3 +1 %     | ••• | •••   | 123.19                          |
| Punjab        | •••     |          | `••• | ··· . | •••   | •••        | ••• | •••   | 145.00                          |
| North-West F  | rontier | Province | •••  | •••   | ***   | •••        | ••• | •••   | 116.98                          |
| Sind          | •••     | . •••    | •••  | } ••• | •••   | •••        | ••• | •••   | 103.90                          |

During the year 6,884 still births (3,703 males and 3,181 females) were reported as against 5,900 (3,353 males and 2,547 females) in the previous year. Of these, 4,966 were Hindus, 1,466 Muslims, 157 Christians, 12 Buddists and 283 other classes.

The percentage of still births to live births was 4.08 during the year as compared to 3.55 during 1944 and 2.99 during 1943.

15. Mortality according to Classes.—During 1945, 79,887 Hindus, 47,382 Muslims, 1,171 Christians, 70 Buddists and 6,026 other classes died. The death-rates per mille by classes for 1945 and 1944 are shown in the following table.

| Classes       |       |     |       |     |     | Death-rate<br>1944 | Death-rate<br>1945 | Increase or decrease |
|---------------|-------|-----|-------|-----|-----|--------------------|--------------------|----------------------|
| Hindus        | •••   |     | •••   | ••• | ••• | 20.83              | 18.02              | 2.81                 |
| Muslims       | •••   | ••• |       | ••• | ••• | 19.15              | 12.96              | 6.19                 |
| Christians    | •••   |     |       | ••• | ••• | 36.57              | 27.74              | <b>—8.</b> 83        |
| Buddists      | • • • | ••• | •••   | ••• | ••• | 8.29               | 8.17               | 12                   |
| Other classes | • • • | ••• | 6 H @ | ••• | ••• | 3.03               | 3.12               | +.09                 |

This cannot be taken to represent a correct state of vital events by classes as communal classification as adopted in the 1941 census is not properly understood and recorded by the primary agents especially in the case of smaller communities and "other classes".

16. Births and Deaths in Hills Districts.—The mid-year estimated population of the five Hills Districts for 1945 was 509,679. The table below shows birth and deathrates for 1945 and 1944 in parts of the Hills Districts where births and deaths are registered.

|                         | Mid-year                                | 19         | 45         | 1944           |            |  |
|-------------------------|---|------------|------------|----------------|------------|--|
| Districts               | estimated population under registration | Birth-rate | Death-rate | Birth-rate     | Death-rate |  |
| 1                       | 2                                       | 3          | 4          | 5              | 6          |  |
| Khasi and Jaintia Hills | 77,543                                  | 14.84      | 9.96       | 14.76          | 10.09      |  |
| Garo Hills              | 237,770                                 | 18:17      | 16•28      | 14.24          | 14.57      |  |
| Lushai Hills            | 165,084                                 | 29.63      | 16.37      | 30.09          | 19.61      |  |
| Naga Hills              | 4,323                                   | 10.64      | 9.02       | Statistics not | complete.  |  |
| Sadiya Frontier Tract   | 24,959                                  | 22.43      | 18.15      | 21.91          | 16.44      |  |

Khasi and Jaintia Hills.—The number of births and deaths recorded during 1945 in the areas under registration in Khasi and Jaintia Hills was 1,151 and 772 respectively as compared to 1,131 births and 773 deaths during 1944. There were 4 deaths from Cholera, 6 from Small-pox, 361 from Fevers, 33 from Dysentery and Diarrhoea, 24 from respiratory diseases, and 6 from injuries during 1945. A total of 27,573 cases of Malaria was treated at the Dispensaries in this District as compared to 29,466 during 1944. The total number of births and deaths registered in Shillong town during 1945 was 597 and 217 respectively as compared to 636 births and 329 deaths during 1944.

The table below shows the number of attacks and deaths from infectious diseases recorded by the Shillong Municipality during 1945.

| Causes           |       |     | State portion Municip |          | British portion Munici | on of Shillong<br>pality | Total   |          |  |
|------------------|-------|-----|-----------------------|----------|------------------------|--------------------------|---------|----------|--|
| l                |       |     | Cases .               | Deaths 3 | Cases 4                | Deaths 5                 | Cases 6 | Deaths 7 |  |
| Cholera          | •••   | ••• | 2                     | 2        | 2                      | 2                        | 4       | 4        |  |
| Small-pox        | •••   | ••• | 13                    | 2        | 4                      | •••                      | 17      | 2        |  |
| Enteric Fevers   |       | ••• | 14                    | 4        | 5                      | 2                        | 19      | 6        |  |
| Tuberculosis     | •••   | ••• | 6                     | 6        | •••                    | •••                      | 6       | 6        |  |
| Diphtheria       | • • • |     | 1                     | •••      | •••                    | •••                      | 1.      | •••      |  |
| C. S. Meningitis | •••   | ••• | 4                     | 3        | 1                      | •••                      | 5       | 3        |  |
| Pneumonia        |       | ••• | •••                   | • •••    | 1                      | 1                        | 1       | 1        |  |
| Black Water Fev  | er    | ••• | ***                   | •••      | 1                      | 1                        | 1       | 1        |  |
| Leprosy          | •••   | ••• | 2                     | Left.    | 1                      | Left.                    | 3       | Left.    |  |

Garo Hills.—There were 4,322 births and 3,854 deaths during 1945 as compared to 3,350 births and 3,429 deaths during 1944. General health conditions in the district were not satisfactory during the year, and there was increased incidence of Kala-azar, Malaria, Tuberculosis and Leprosy. The total number of Malaria cases treated in all the Hospitals and Dispensaries in this district was 21,506 during 1945 as

compared to 21,361 during the previous year.

Lushai Hills.—There were 4,891 births and 2,703 deaths during 1945 as compared to 4,882 births and 3,181 deaths during 1944. Of the total number of deaths, Fevers accounted for 1,469, Respiratory diseases for 743, Dysentery and Diarrhoea for 262. An outbreak of "Influenza" was reported from Aijal and its surrounding villages during 1945 with 735 cases but no deaths. The health condition in the district remained fairly satisfactory.

Naga Hills.—In this district registration was carried out in the localities of Kohima, Dimapur, Nichuguard and Kongnym only. During 1945/46 births and 39 deaths were reported. There was an outbreak of Enteric Fever in Kohima area with 269 attacks and 79 deaths and an outbreak of Small-pox in Changtongia village in Mokokchung Subdivision with 49 attacks and 2 deaths. The total number of

Malaria cases treated during 1945 was 29,709.

Sadiya Frontier Tract.—560 births and 453 deaths were registered in Sadiya Frontier Tract during 1945 as compared to 541 births and 406 deaths during 1944. Of the total number of deaths, Fevers accounted for 331. During 1945, there was an outbreak of Small-pox with 140 cases and 30 deaths in Sadiya Subdivision. Anti-Malaria measures were continued during the year at Pasighat, Sadiya and Saikhowaghat.

Manipur State.—Births and deaths are not registered in the State. A total of 133 attacks and 69 deaths

from Cholera and 93 attacks and 13 deaths from Small-pox was reported during 1945.

17. Registration in Tea Gardens.—The table below shows the births and deaths reported from tea estates during the year 1945 as compared to those of the preceding year.

| , ,      | Distric | ets      |       | Birth | -rate          | Death-ra | ite               |
|----------|---------|----------|-------|-------|----------------|----------|-------------------|
|          | 1       |          |       | 1944  | 1945           | 1944     | 19 <b>45</b><br>5 |
| Cachar   | •••     | ••• (    |       | 21.65 | 24.35          | 24.64    | 22.24             |
| Sylhet   |         | •••      | •••   | 20.61 | 12.56          | 15.38    | . 9.91            |
| Goalpara | •••     | •••      | •••   | 14.95 | 2 <b>3</b> ·70 | 41.53    | 12.69             |
| Kamrup   | •••     | •••      |       | 15.37 | * 、11.12       | 15.49    | 15.56             |
| Darrang  |         | # 14 · # | •••   | 13.84 | 21.80          | 18.58    | 19.39             |
| Nowgong  |         | •••      | ***   | 16.54 | 18.54          | 13.19    | 17.20             |
| Sibsagar |         | •••      | • • • | 27.88 | 20.79          | 17.19    | 17.01             |
| Lakhimpu |         |          | •••   | 21.87 | 23.53          | 20.76    | 17.27             |
|          |         | Tota     | al    | 21.83 | 20.55          | 18.90    | 16.83             |

Registration in the tea estates of Sylhet district was unsatisfactory during the year. In 5 districts, viz., Cachar, Goalpara, Darrang, Nowgong and Lakhimpur, birth-rates in tea estates were higher and in 4 districts, viz., Cachar, Sylhet, Sibsagar and Lakhimpur death-rates in tea estates were lower than those of

the preceding year.

The total number of births and deaths in tea estates during 1943 was 23,486 and 19,238 as compared to 24,699 and 21,415 respectively during the previous year. The largest number of deaths was recorded under "other causes" (8,411), followed by Fevers' (5,197), Dysentery and Diarrhoea (3,232) and Respiratory diseases (2,098). There were 62 deaths from Cholera and 44 deaths from Small-pox as compared to 89 deaths from Cholera and 249 deaths from Small-pox in the previous year.

18. Registration in Railway Areas.—During 1945, 202 births and 124 deaths were reported from within

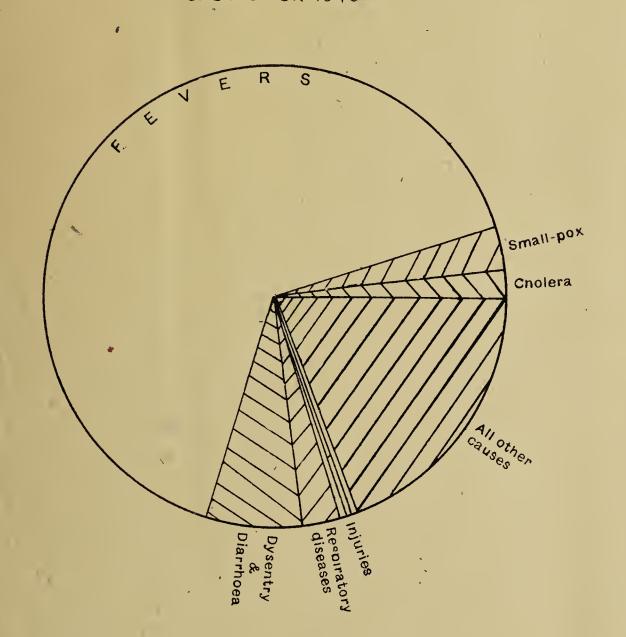
railway limits of the province as compared to 208 births and 196 deaths in the preceding year.

19. General accuracy of Vital Statistics.—No appreciable improvement occurred in the registration of vital statistics during 1945. The Scheme for the improvement of vital statistical returns has not yet been sanctioned by Government. It is also necessary that the Assam Births and Deaths Registration Act of 1935

should be gradually made compulsory in the rural areas.

The Public Health staff carried out verification of vital occurrences in the compulsory areas and inspection of village registers in rural areas. The percentage of omission, based on 5 districts reporting omissions, was 3.4 in respect of births and 1.4 in respect of deaths during 1945. During the year a complete survey of Gauripur town with a population of about 5,000 was carried out by the Public Health staff, in order to assess the accuracy of registration. The registration of deaths was found to be correct and the slight variation in respect of births was found, on statistical test, to be insignificant.

## CAUSES FOR 1945



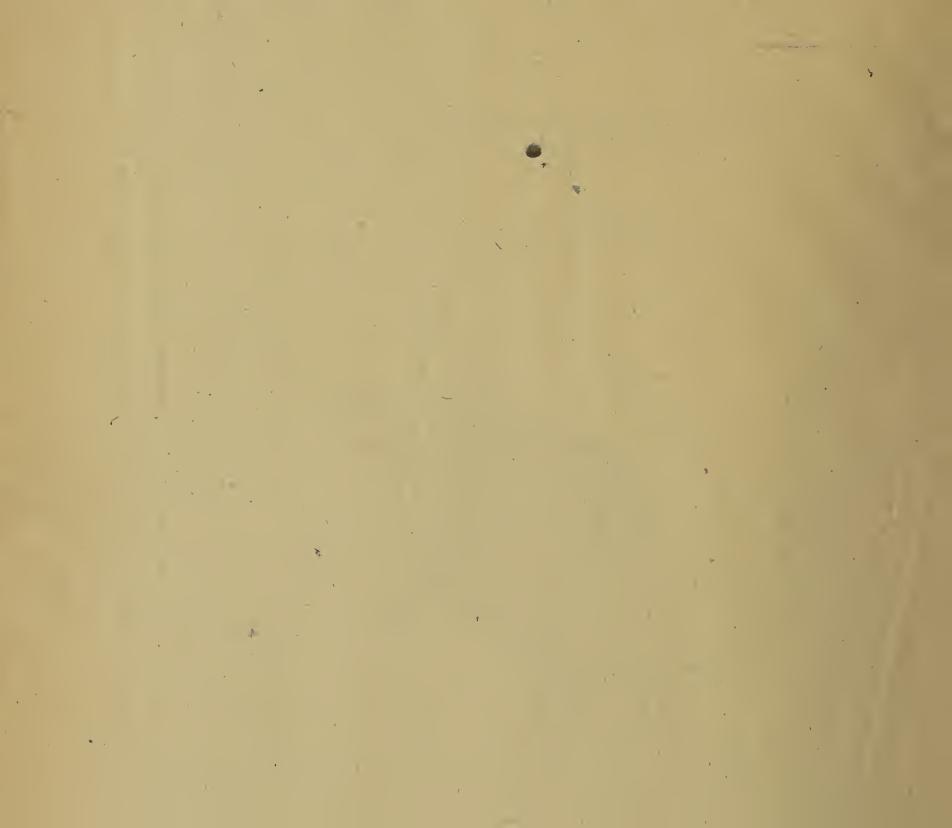
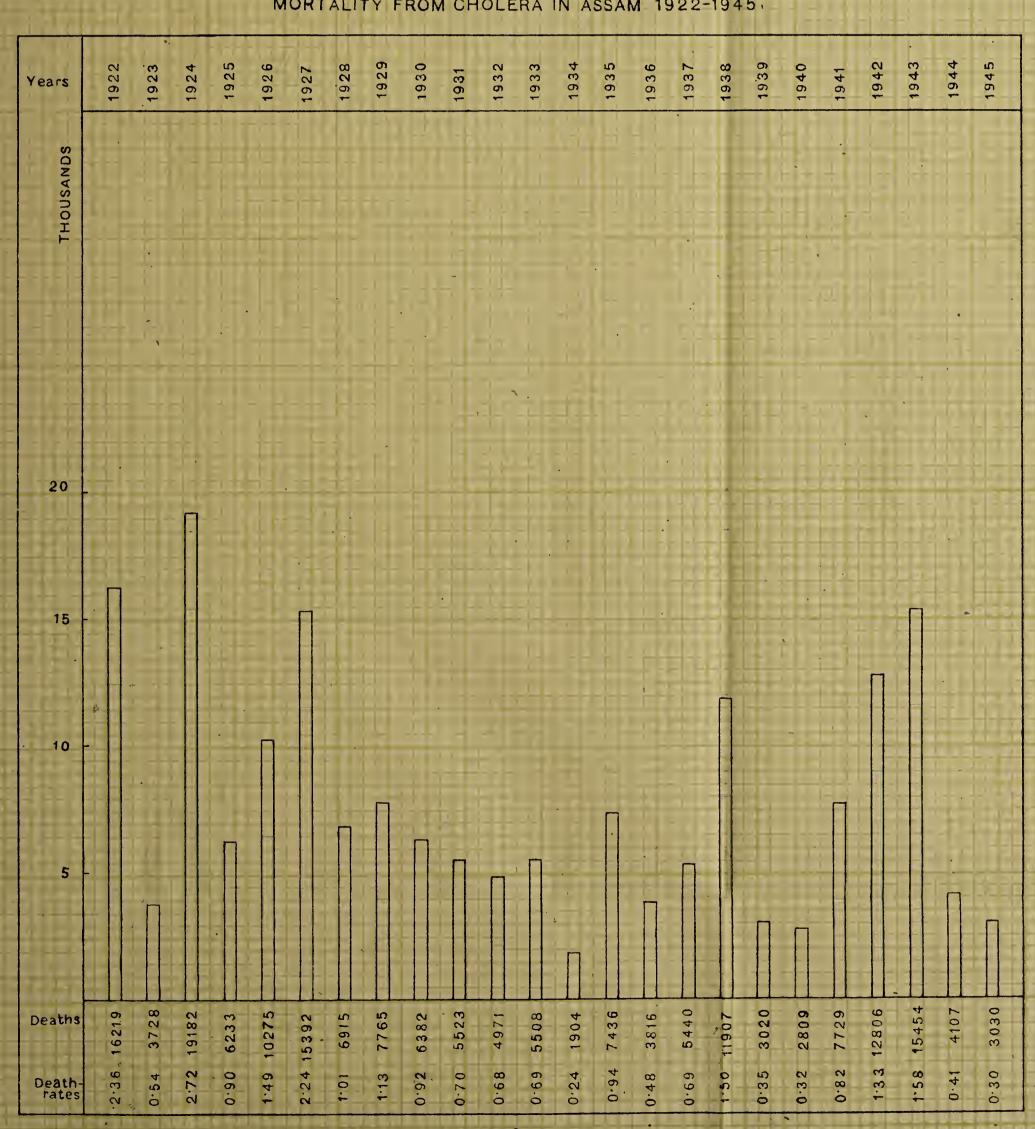


CHART II

#### MORTALITY FROM CHOLERA IN ASSAM 1922-1945



20. Emigration and Immigration.—The only figures available are of immigrant labour population employed by the Tea Industry of Assam.

The statement below shows the number of tea garden labourers who entered Assam during 1945 and 1944.

|           |       |      | Months |       |        | 1945                      | 1944                                    |
|-----------|-------|------|--------|-------|--------|---------------------------|---|
| January   | •••   | ••,• | •••    | •••   | •••    | 9,840                     | 4,439                                   |
| February  | •••   | •••  | •••    | • • • | •••    | 10,855                    | 7,758                                   |
| March     | •••   | •••  | •••    |       | ***    | 10,597                    | 10,713                                  |
| April     | •••   | •••  | •••    | •••   | • • •. | 7,730                     | 10,499                                  |
| May       | ••• ' | •••  | •••    | •••   | · • •  | 6,569                     | 7,600                                   |
| June      | •••   | •••  | • • •  | •••   | •••    | 4,171                     | 4,589                                   |
| July      | •••   | •••  | •••    | •••   | ••• /  | 1,423                     | 1,641                                   |
| August    | •••   | •••  | •      | •••   | •••    | 570                       | 486                                     |
| September | •••   | •••  | •••    | •••   | •••    | 324                       | 304                                     |
| October   | •••   | •••  | •••    | •••   | •••    | 361                       | <b>318</b>                              |
| November  | •••   | •••  | •••    | * * * | •••    | 429                       | 615                                     |
| December  | •••   |      | •••    | •••   | •••    | 1,921                     | 2,507                                   |
|           |       |      | ,      |       |        | denotes permutes revolute | Stationaries (released at the materials |
|           |       | 4    | Total  |       | •••    | 54,781                    | 51,469                                  |
|           |       |      |        |       |        |                           |   |

During the year 358 cases of sickness among the immigrant labour were reported of whom 40 died.

#### CHAPTER III

#### The State of Public Health and History of Chief Diseases

#### A.—State of Public Health

21. The general state of public health in the Province was fairly satisfactory during the year. Deaths under all heads of mortality were less as compared to 1944. The following table shows the death-rates per mille from the chief causes of mortality during 1945 as compared to death-rates during 1944 and the previous quinquennium.

|                         |     | 19    | 45      |             |       | 1944    |         | 1940-44 |         |         |  |
|-------------------------|-----|-------|---------|-------------|-------|---------|---------|---------|---------|---------|--|
| Disease                 |     | Urban | Rural C | Combined    | Urban | Rural C | ombined | Urban   | Rural C | lombine |  |
| 1                       |     | 2     | 3       | 4           | 5     | 6       | . 4     | 8       | 9       | 10      |  |
| Cholera                 | ••• | •24   | •30     | .30         | .38   | •42     | -41     | •55     | •91     | .86     |  |
| Small-pox               | ••• | .25   | .38     | .38         | 1'43  | 1.18    | 1.18    | •45     | .31     | .3]     |  |
| Plague                  | **  |       |         |             | Nil   |         |         |         |         |         |  |
| Fevers                  | ••• | 3.73  | 8.89    | 8.74        | 5.69  | 10.67   | 10.53   | 4.43    | 10.25   | 10.08   |  |
| Dysentery<br>Diarrhoea. | and | 1.17  | ·87     | <b>.</b> 88 | 2.30  | 1:08    | 1.12    | 3.59    | 1.01    | 1.04    |  |
| Respirat<br>Diseases.   | ory | .30   | •34     | •35         | 1.19  | •43     | •46     | 1.42    | •47     | . •49   |  |
| Injuries                | ••• | .31   | ·11     | •12         | •50   | •16     | .17     | •49     | .17     | •18     |  |
| Other causes            | ••• | 4.25  | 2.56    | 2.60        | 6.18  | 2.90    | 3.00    | 4.34    | 3.12    | · 3·55  |  |
|                         |     | 10.75 | 13.45   | 13.37       | 17.67 | 16.84   | 16.87   | 15.27   | 16.24   | 16.2    |  |

The death-rates were lower under all causes as compared to 1944 and appreciably lower in respect of Small-pox and Fevers.

During 1945, 2·25 per cent. of the total mortality was due to Cholera, 2·85 per cent. due to Small-pox, 65·40 per cent. due to Fever, 6·60 per cent. due to Dysentery and Diarrhoea, 2·64 per cent. due to Respiratory diseases, '91 per cent. due to Injuries and 19·35 per cent. due to other causes.

#### B.—Chief Diseases

22. Cholera.—There was no large scale outbreak of Cholera during 1945, but small outbreaks or sporadic cases were reported from all the districts. A total of 3,030 deaths from Cholera was recorded during 1945 as compared to 4,107 during 1944 and the quinquennial average of 8,551. As in the previous year, Sylhet district recorded the highest number of deaths from Cholera (2,006 cases or 66 per cent. of the total Cholera mortality).

The table below shows the death-rate per mille due to Cholera by districts during 1945, 1944 and the previous quinquennium.

| •          | 1     | Districts |       |         | Death-rate per mille |      |      |         | Difference between     |  |  |
|------------|-------|-----------|-------|---------|----------------------|------|------|---------|------------------------|--|--|
| ·          |       |           |       |         |                      | 1945 | 1944 | 1940-44 | columns (4)<br>and (2) |  |  |
|            |       | 1         |       | •       |                      | . 2  | 3    | 4       | 5                      |  |  |
| Cachar     | • • • | •••       | •••   | • • •   | •••                  | •17  | •29  | •61     | 44                     |  |  |
| Sylhet     | •••   | • • •     | •••   | •••     | •••                  | .61  | •94  | 1.28    | <b>—·</b> 67           |  |  |
| Goalpara   | •••   | •••       | ***   | · · · · | •••                  | •04  | •11  | •71     | <b>—·6</b> 7           |  |  |
| Kamrup     |       | •••       | •••   | •••     | •••                  | •19  | ·14  | .99     | 80                     |  |  |
| Darrang    | •••   | •••       | •••   | • • •   | •••                  | •19  | •20  | •73     | •54                    |  |  |
| Nowgong    | •••   |           | •••   | •••     | •••                  | •16  | .38  | 1.56    | -1.34                  |  |  |
| Sibsagar ' | •••   | •••       | •••   | •••     | •••                  | •28  | .08  | ·24     | +.04                   |  |  |
| Lakhimpur  | •••   | •••       | ₩ ♦ ♦ | • • •   | •••                  | .01  | •02  | •19     | <b>—·18</b>            |  |  |
|            |       |           | Total | •••     | •••                  | 30   | •41  | .89     | <b>—·5</b> 9           |  |  |

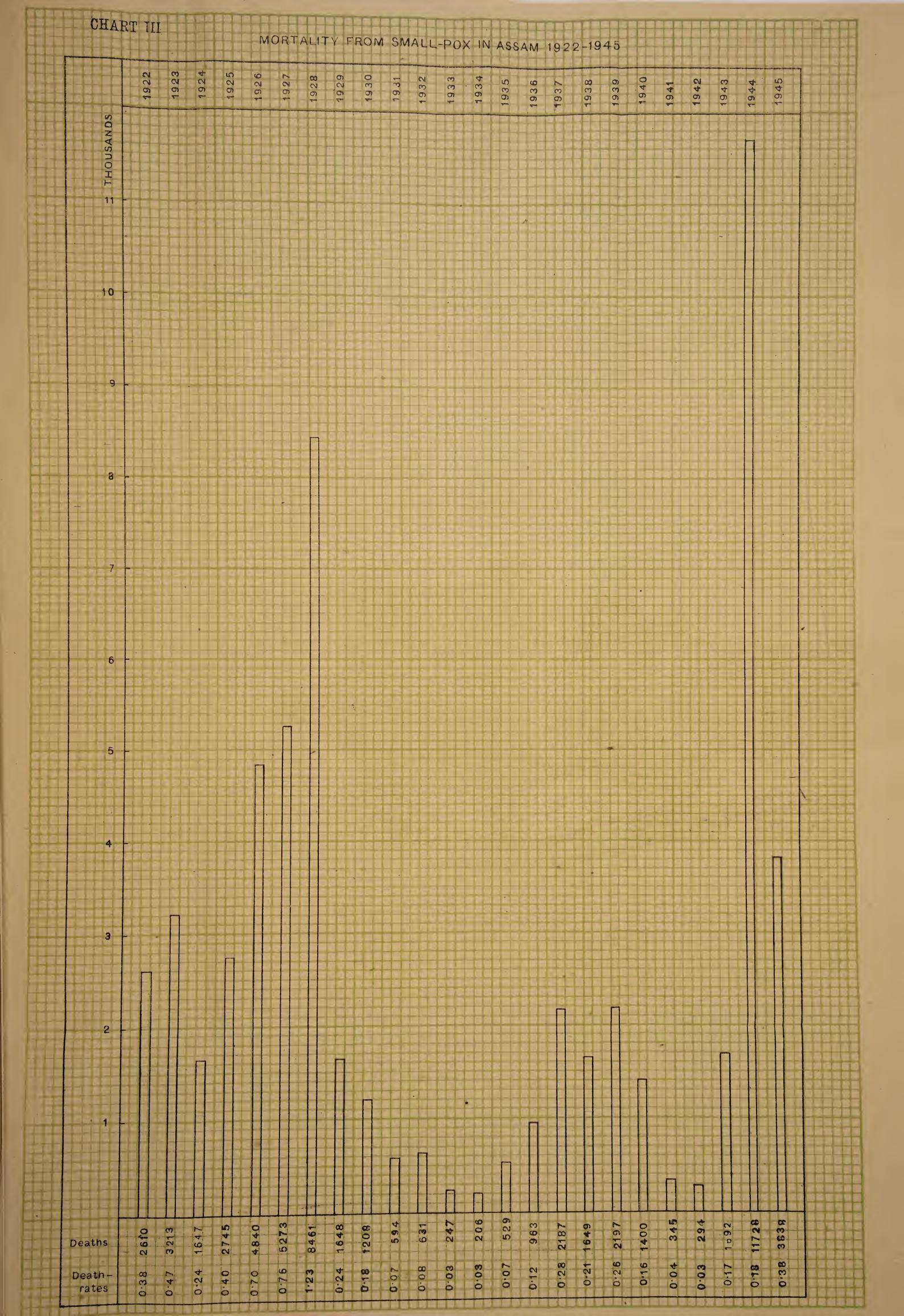
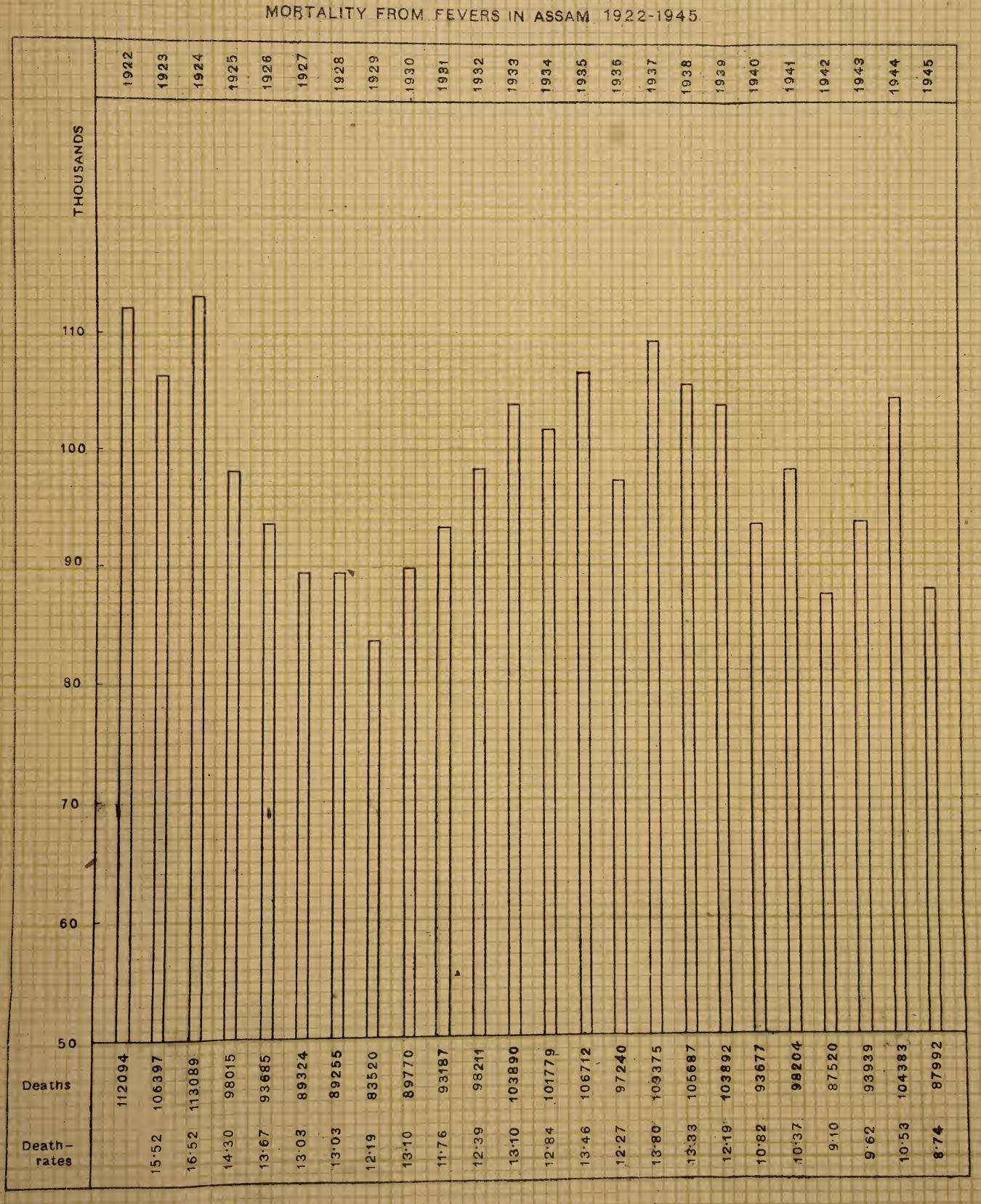




CHART IV



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The incidence of Cholera was comparatively low during 1945, probably as a result of the mass immunity affected by the continuous anti-cholera inoculation carried out amongst the people of the infected areas since the last severe epidemic of 1941-43. Propaganda was also continued in order to educate the people in methods of prevention, it is satisfactory to note that Cholera inoculation is becoming more popular amongst the rural masses. During 1945, approximately 13,61,177 c.cs of Cholera Vaccine were used for inoculation and 2,62,352 ampoules (of 2 c.c. each) of Bacteriophage were issued for prevention and treatment. During the year, 11 towns were reported to be infected as compared to 14 towns during 1944. Gauhatí town recorded the highest number of deaths (24). In the rural areas Madhabpur circle of Sylhet district recorded the highest death-rate (2.79) followed by Maulvibazar and Barlekha rural circles (1.49 each).

From the tea estates a total of 62 deaths from Cholera was reported during 1945 as compared to 89

23 Small-pox.—The incidence of Small-pox showed an appreciable decline in the Province as a whole during 1945, though Sibsagar district recorded higher incidence as compared to the previous year. In all there were 3,838 deaths from Small-pox during 1945 as compared to 11,728 during 1944 and the quinquennial average of 3,092. The epidemic of 1944 was carried into the early part of this year. In the districts of Sylhet and Kamrup Small-pox prevailed in sporadic form throughout the year, though the incidence declined considerably during the latter half of the year.

The table below shows the death-rates per mille due to Small-pox by districts during 1945, 1944 and the

| previous quir | iquenniu |           |       |       |     |      | le    | Difference |  |  |
|---------------|----------|-----------|-------|-------|-----|------|-------|------------|--|--|
|               |          | Districts |       | w.*   |     | 1945 | 1944  | 1940-44    | between the columns (2) and (4)                    |  |
|               |          | 1         |       |       |     | 2    | 3     | 4 .        | 5  |  |
| Cachar        | •••      | •••       | •••   | •••   | ••• | •10  | •79   | •23        | <del>, · · · · · · · · · · · · · · · · · · ·</del> |  |
| Sylhet        | •••      | •••       | •••   | •••   | ••• | •56  | .2:01 | •55        | +.01   |  |
| Goalpara      | •••      | •••       | • • • |       | ••• | .07  | •45   | •10        | <b>—·</b> 03                                       |  |
| Kamrup        | •••      | •••       | •••   | •••   | ••• | •45  | •95   | •24        | + • 21   |  |
| Darrang       | •••      |           |       | •••   | ••• | .08  | •28   | •08        | •••  |  |
| Nowgong       |          | -, ···    | •••   | •••   | ٠   | . 19 | 2.24  | •61        | <b></b> •42  |  |
| Sibsagar      | •••      | •••       | •••   | •••   | ••• | .71  | •35   | .08        | ÷·63   |  |
| Lakhimpur     | •••      | •••       | •••   | •••   | ••• | •23  | •64   | •15        | +.08   |  |
|               |          |           |       | Total | ••• | .38  | 1.18  | .31        | +.07   |  |

Although the incidence of Small-pox was low as compared to the previous year, it was still higher than the quinquennial average and shows the need for continued mass' vaccination especially amongst the rural masses where vaccination is not compulsory and people are very unwilling to be vaccinated during periods of freedom from the disease. During the year, 12 towns were reported to be infected as compared to 24 towns in the preceding year. Maulvibazar town recorded the highest number of deaths (14). Amongst the rural areas, Jaintiapur circle of Sylhet district recorded the highest death-rate (4.18).

24. Plague.—The Province continued to remain free from Plague during 1945.

25. Fevers.—The total number of deaths registered under the head 'Fevers' during 1945 was 87,992 as compared to 1,04,383 during 1944 and the quinquennial average of 95,545. Compared to last year there was a decrease of 16,391 in the number of deaths, probably as a result of the subsidence of the Malaria epidemic in parts of Sylhet district. 'Fevers' which include Malaria, kala-azar and other diseases with Fever as the predominant symptom accounted for 65.4 per cent. of the total mortality during 1945 as compared to 63.2 per cent. during 1944. Though deaths from 'Fevers' are mainly due to Malaria, it is not possible to determine the percentage of deaths due to Malaria alone.

The following table shows the death-rate per mille due to fevers by districts during 1945, 1944 and the

| previous qui | inquenniu |           |       | •     |       | Death-rate per mille |       |         |                         |  |  |  |
|--------------|-----------|-----------|-------|-------|-------|----------------------|-------|---------|-------------------------|--|--|--|
|              |           | Districts |       |       |       | 1945                 | 1944  | 1940-44 | between the columns (2) |  |  |  |
|              |           | 1         |       |       |       | 2                    | 3     | 4       | and (4)                 |  |  |  |
| Cachar       | •••       | •••       | •••   | • • • | •••   | 10.60                | 13.77 | 10.82   | 22                      |  |  |  |
| Sylhet       | •••       | •••       | •••   | •••   | •••   | 10.11                | 14.11 | 11.23   | -1.12                   |  |  |  |
| Goalpara     | •••       | •••       | •••   | •••   | •••   | 13.05                | 14.77 | 16.82   | -3.77                   |  |  |  |
| Kamrup       | •••       | •••       | • • • | 0 010 | •••   | 5.23                 | 5·12  | 6.07    | <b>—·7</b> 6            |  |  |  |
| Darrang      | •••       | .1.       | •••   | •••   |       | 9.83                 | 10.21 | 10.70   | <b></b> ⋅87             |  |  |  |
| Nowgong      | •••       | •••       | •••   | •••   | •••   | 5.37                 | 6.26  | 7.88    | -2.21                   |  |  |  |
| Sibsagar     | = )       | •••       | • • • | •••   |       | 8.21                 | 7.75  | 7.62    | +- 59                   |  |  |  |
| Lakhimpur    | •••       | •••       | • • • | • • • |       | 5.28                 | 6.16  | 7:36    | -1.78                   |  |  |  |
|              |           |           |       | Total | • • • | 8.74                 | 10.53 | 10.03   | -1.34                   |  |  |  |

The highest death-rate was recorded in the district of Goalpara and the lowest in Kamrup. Compared to last year only Sibsagar district returned a higher death-rate during 1945.

Amongst the towns high death-rates were reported from Goalpara and Barpeta and among rural circles, Jaintiapur circle of Sylhet district recorded the highest rate.

As in previous years, Quinine and other anti-malaria drugs were distributed free to indigent Malaria patients in the badly affected areas throughout the Province.

26. Kala-Azar.—The incidence of kala-azar showed a definite trend upwards during the year. Since the inception of the Public Health Department in Assam, the fight against kala-azar has been waged unceasingly, but during the war years both survey and treatment centres had to be curtailed due to lack of doctors and a great deal of work, on planned scientific lines, remains to be done to control the incidence of this disease in the Province. A factor of importance is the desperately low economic condition of the masses with resulting malnutrition and the very poor standard of rural housing. During the year, insecticidal spraying against the sandfly could not be carried out and the work was confined, as before, to early detection and treatment of cases. Even this becomes difficult due to lack of co-operation from the patients during the cultivating and harvesting periods.

The table below shows the number of kala-azar cases treated yearly from 1935 to 1945.

| Sadiya Fron  | tier Trac | et   |     | ••    | ••          | 2     |       | ••             | ••     |       | 1     | • •   | • •   | ••    |
|--------------|-----------|------|-----|-------|-------------|-------|-------|----------------|--------|-------|-------|-------|-------|-------|
| Garo Hills   | ••        |      | • • | 690   | <b>7</b> 93 | 717   | 824   | 808            | 1,346  | 1,259 | 1,496 | 1,472 | 1,722 | 2,484 |
| Lushai Hills |           | •••  | ••  | ••    | ••          | ••    |       |                | • •    | ••    | ••    | ·     | ••    |       |
| Naga Hills   |           | ••   |     | 7     | 5           | 15    | 39    | 47             | 16     | 8     | 3     | 3     |       | ••    |
| Khasi and J  | aintia Hi | ills |     | ••    |             | ••    | *     |                |        |       |       |       |       |       |
| Lakhimpur    |           |      |     | 12    | 6           | 2     | 13    | 15             | 15     | 12    | 15    | 50    | 40    | 76-   |
| Sibsagar     |           |      |     | 938   | 864         | 1,396 | 3,050 | 3,315          | 4,070  | 2,640 | 3,643 | 3,494 | 2,747 | 2,629 |
| Nowgong      | ••        |      |     | 1,651 | 1,471       | 2,317 | 3,265 | 3,875          | 5,129  | 3,593 | 2,774 | 3,093 | 2,758 | 2,586 |
| Darrang      | ••        |      | ••  | 738   | 63 <b>6</b> | 514   | , 989 | 861            | 1,491. | 1,128 | 2,599 | 2,393 | 1,860 | 2,087 |
| Kamrup       | • •       |      |     | 1,465 | 1,309       | 918   | 1,189 | 1,138          | 1,721  | 1,215 | 1,338 | 1,505 | 914.  | 1,573 |
| Goalpara     | • •       |      | • • | 1,245 | 1,275       | 2,046 | 2,541 | 2 <b>,9</b> 89 | 3,194  | 2,761 | 3,314 | 2,639 | 2,178 | 2,125 |
| Sylhet       |           | ••   | ••  | 3,869 | 3,645       | 3,672 | 4,622 | 4,029          | 3,386  | 2,830 | 3,887 | 3,624 | 3,566 | 4,561 |
| Cachar       |           | • •  |     | 478   | 574         | 445   | 716   | 669            | 778    | 1,024 | 963   | 935   | 805   | 1,135 |
|              | 1         |      | •   | 2     | 3           | 4     | 5     | 6              | 7      | 8     | . 9   | 10    | 11    | 12    |
|              | Distric   | ts ° | ·   | 1935  | 1936        | 1937  | 1938  | 1939           | 1940   | 1941  | 1942  | 1943  | 1944  | 1945  |

The number of recorded deaths from kala-azar by districts from 1935 to 1945 is shown in the following table:—

| • |             |            |      |     |            |             |                                |       |       | •     |      |             |      |      |      |
|---|-------------|------------|------|-----|------------|-------------|--------------------------------|-------|-------|-------|------|-------------|------|------|------|
|   |             | Districts  |      |     | 1935       | 1936        | 1937                           | 1938  | 1939  | 1940  | 1941 | 1942        | 1943 | 1944 | 1945 |
|   |             | 1          |      |     | 2          | 3           | 4                              | 5     | 6     | 7     | 8    | 9           | 10   | 11   | 12   |
| C | achar       | • •        |      |     | 7          | 2           | 4                              | 5     | 8     | 5     | 32   | 1           | 4    | 31   | 5    |
| S | ylhet       |            |      |     | 260        | 173         | 207                            | 268   | 152   | 115   | 115  | 154         | 131  | 99   | 128  |
| G | oalpara     |            |      |     | 100        | 84          | 135                            | 106   | 205   | 174   | 124  | 90          | 90   | 122  | 18   |
| K | amrup       |            | ••   |     | 176        | 61          | 77                             | 104   | 58    | 69 🦏  | 62   | 65          | 67   | 32   | 66   |
| D | arrang      |            |      |     | 91         | 155         | 256                            | 256   | 181   | 221   | 100  | 89          | 195  | 117  | 150  |
| N | lowgong     |            |      | • • | . 52       | 121         | 196                            | 101   | 170   | 161   | 135  | <b>1</b> 19 | 152  | 102  | 80   |
| S | lbsagar     |            | • •  |     | 101        | 99          | 126                            | 447   | 553   | 773   | 95   | 102         | 76   | 161  | 34   |
| L | akhimpur    |            |      | **  |            |             |                                |       | 1     | 3     | 1    | 3.          | 8    | 19   | 37   |
| K | Chasi and J | aintia Hil | ls   |     |            | 10          | 5                              | 5     | 12    | ••    | 1    |             | 1    | ••   |      |
| N | laga Hills  | • •        |      | • • | • •        |             | ••                             | ••    | 9     | 3     |      | ••          | 1    | 2    | ••   |
| L | ushai Hills |            |      | • • | <i>t</i>   |             |                                | ••    | ••    | ••.   |      |             | ••   | ••   | •    |
| G | aro Hills   | ••         | ••   | ••  | <b>5</b> 8 | 47          | 51                             | 46    | 47    | 70    | 49   | 78          | 71   | 113  | 116  |
| S | adiya Fron  | tier Tract | • •  | ••  | ••         | 1           | ••                             |       | • •   | ••    | • •  | *           |      | ••   | a •• |
| N | Manipur St  | ate        |      |     |            |             | •••                            | ••    | ••    | ••,   | • •  | ••          | ••   | ••   | • •  |
|   |             | T          | otal |     | 845        | <b>7</b> 53 | 1,057                          | 1,338 | 1,396 | 1,594 | 714  | 701         | 796  | 798  | 634  |
|   |             |            |      |     |            |             | THE PERSON NAMED IN COLUMN TWO |       |       |       |      |             |      |      |      |



For the treatment of kala-azar cases two new Public Health Department Dispensaries in Nowgong district were sanctioned by the Government during 1945. Drugs are supplied to all dispensaries in the Province for the treatment of kala-azar cases and in all Civil Hospitals provision is made for the treatment of indoor patients. There are also kala-azar Hospitals at Golaghat and Tura.

- 27. Influenza.—Eight hundred and twenty-one deaths due to Influenza were reported during the year as compared to 352 deaths during 1944. Sylhet district recorded the highest number of deaths (179) followed by Darrang (148), Sibsagar (129), Kamrup (120), Garo Hills (106), Lakhimpur (67), Khasi and Jaintia Hills (32), Goalpara (25) and Nowgong (15). Outbreaks of Influenza were reported from Khasi and Jaintia Hills and Lushai Hills but it is doubtful if these were really outbreaks of epidemic Influenza.
- 28. Enteric Fevers.—Enteric group of fevers accounted for 36 deaths during the year as compared to 67 deaths during 1944. Enteric fever is notifiable only in the Municipal areas, and a large number of cases undoubtedly remain undiagnosed. The higher number of deaths due to Enteric fevers was recorded in Sylhet town (13) followed by Tezpur town (9), Dibrugarh and Silchar (4 each), and Gauhati and Habiganj towns (2 each). Cases of enteric group were reported from Gauhati almost throughout the year and it is only surprising that more deaths were not recorded considering its appalling sanitary standard and defective water supply system.
- 29. Dysentery and Diarrhea.—A total of 8,856 deaths from Dysentery and Diarrhea was reported during 1945 as compared to 11,100 in the preceding year and the quinquennial average of 9,934. The following table shows the death-rates from Dysentery and Diarrhea by districts for the years 1945, 1944 and the previous quinquennium.

| vious quinqueimium. |     | Districts |       |       |     | D    | Difference    |              |                                 |  |  |
|---------------------|-----|-----------|-------|-------|-----|------|---------------|--------------|---------------------------------|--|--|
|                     |     |           | •     |       | ب.  | 1945 | 1944          | 1940-44      | between the columns (2) and (4) |  |  |
|                     |     | 11        |       | `     |     | 2    | 3             | 4            | 5                               |  |  |
| Cachar              | ••• | •••       |       | •••   | ••• | 1.78 | 2.41          | 1.87         | 09                              |  |  |
| Sylhet              | ••• | •••       |       | •••   |     | 1.07 | 1· <b>3</b> 3 | 1.13         | <b>-</b> ∙06                    |  |  |
| Goalpara            | ••• | •••       | •••   | •••   | ••• | .02  | •10           | . •55        | —·50                            |  |  |
| Kamrup              |     | •••       | •••   | •••   | ••• | •27  | •41           | •38          | <b>-</b> ∵11                    |  |  |
| Darrang             |     | •••       |       | •••   | ••• | ∙94  | 1.73          | 1.70         | <b>—</b> ∙76                    |  |  |
| Nowgong             | ••• |           | · * • | •••   | ••• | •69  | •47           | ·61          | +.08                            |  |  |
| Sibsagar            |     | •••       | •••   | •••   | ••• | 1:39 | 1.20          | 1·3 <b>3</b> | +.06                            |  |  |
| Lakhimpur           |     | •••       | •••   | •••   | ••• | •95  | 1.61          | 1.46         | —·51                            |  |  |
|                     |     |           |       | Total | ••• | .88  | 1.12          | 1.04         | —·16                            |  |  |

The seasonal prevalence was rather unusual as higher number of deaths were reported during the cold months.

- 30. Respiratory Diseases.—There were 3,561 deaths due to this group of diseases during 1945 as compared to 4,520 deaths during 1944 and the quinquennial average of 4,690. The mortality rate per mille of population was 35 during 1945, as compared to 46 during 1944. Lakhimpur and Cachar districts recorded the highest death-rate (\*84) followed by Sibsagar district (\*57) and Darrang district (\*48).
- 31. Injuries and other causes.—During the year, 1,221 deaths were reported from all Injuries as compared to 1,655 during 1944. This includes 195 deaths (113 males and 82 females) due to suicide, 894 from wounds and accidents, 30 from Snake-bite, 83 due to Injuries received from wild animals and 19 due to rabies.

Deaths reported under 'other causes' numbered 26,018 during 1945 as compared to 29,775 during 1944.

- 32. Yaws.—During the year, 853 cases of Yaws were treated at the Public Health Department and Local Board Dispensaries as compared to 597 cases treated during 1944, and 1,368 cases during 1943. Yaws is mostly prevalent amongst aboriginal and hills tribals and the largest number of cases were treated in the districts of Goalpara (316) and Garo Hills (305).
- 33. Minor Eye Complaints.—The number of cases of Minor Eye Complaints treated at the Public Health Department Dispensaries was 3,067 during 1945 as compared to 3,148 during 1944 and 2,868 during 1943. No work in connection with survey and welfare of the blind has yet been started in this Province. A proposal for the formation of a Provincial Council for Blindness with an adviser in blind welfare is now under the consideration of Government.

34. Leprosy.—Leprosy is indigenous in the Province specially amongst the aboriginals and the hills tribals. A total of 795 Leprosy cases (113 Lepromatous and 682 Neural) was treated at the Dispensaries and Clinics of the Public Health Department during 1945 as compared to 786 during 1944. In addition 1,898 cases were treated at the various centres of treatment under the Medical Department, Local Boards and

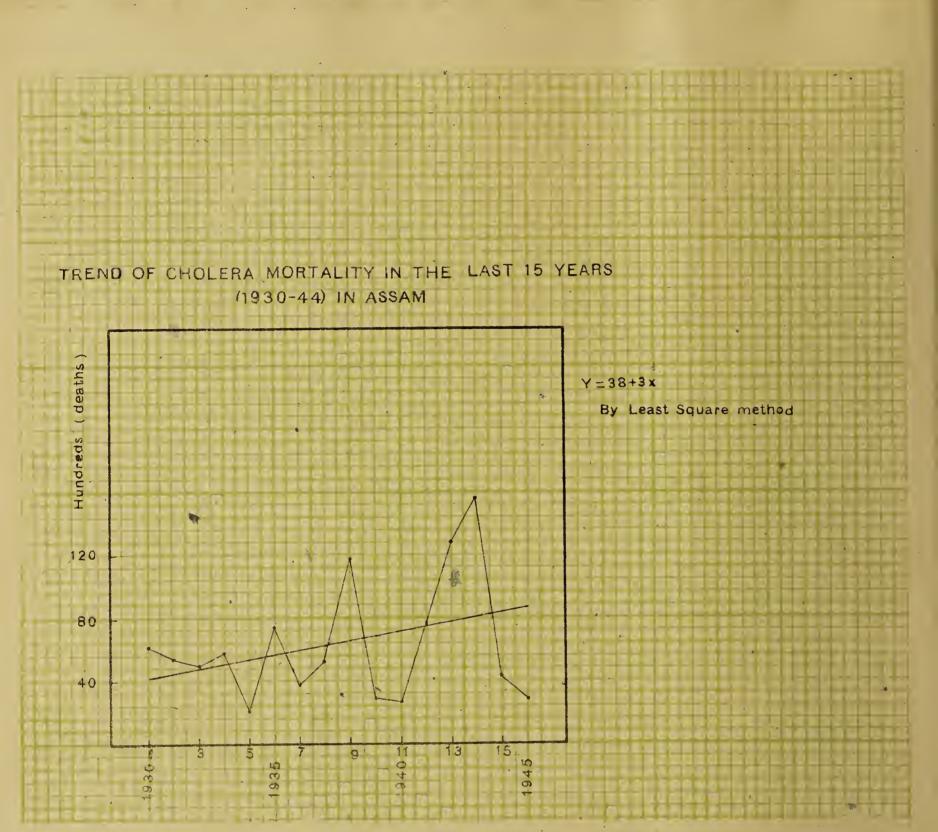
Missionary Societies.

The Special Leprosy Officer carried out an intensive Leprosy survey in Singimari area in Nowgong district amongst a population of 1,510 Mikirs and Santals and detected 250 cases of Leprosy (16 Lepromatous and 234 Neural), giving 15.5 per cent. case incidence. He also carried out a survey in the Trans-Dikhu area of Naga Hills amongst 5,394 Koynak Nagas and detected 43 cases (14 Lepromatous and 29 Neural), showing 8 per cent. case incidence. As a result of these surveys, proposals for Colonies near Singimari village and at a suitable site in the Naga Hills have been submitted to Government for consideration. Routine propaganda work for limiting the spread of the disease is carried out by the Special Leprosy Officer and other doctors of the Department in addition to surveys. The Special Leprosy Officer and another licentiate of the Public Health Department were sent to a refresher course in Leprosy at the Calcutta School of Tropical Medicine during 1945. Short courses of instruction were conducted for Leprosy workers at the Government Leper Asylum, Sylhet. Missionary Leper Colonies continued to do excellent work during the year.

#### CHAPTER IV

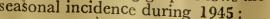
### **Epidemiology**

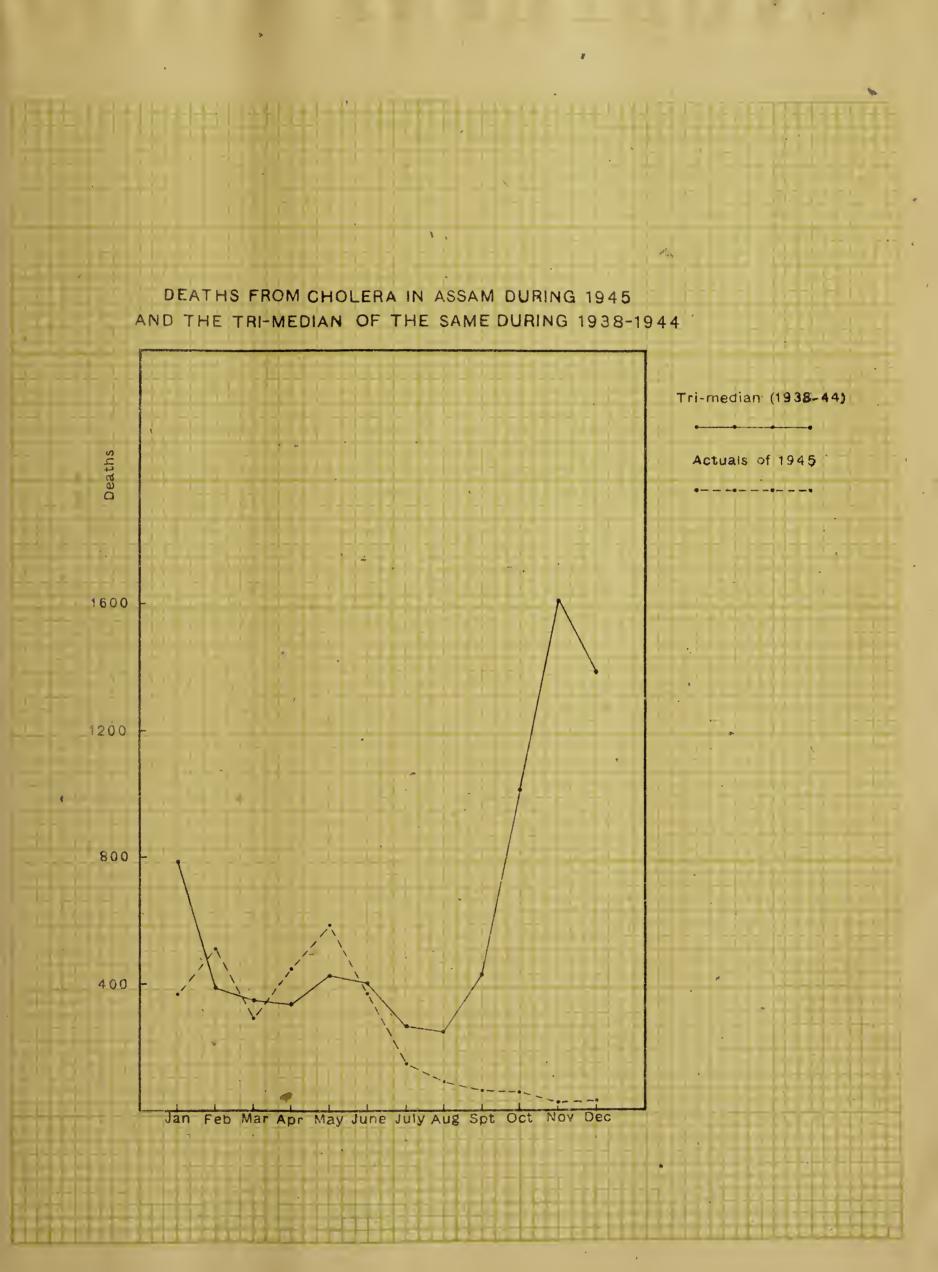
35. Cholera.—An analysis of the Cholera mortality figures for the years 1930 to 1944 shows an upward trend in the incidence of Cholera as indicated in the graph below:—



There does not appear to be any definite periodicity in the intensity of its prevalence. The difference in the incidence of Cholera between urban and rural areas is not significant. The urban and rural death rates due to Cholera were •24 and •30 respectively during the year as compared to •42 and •38 during 1944.

The following graph shows the average seasonal incidence of Cholera from 1938 to 1944 and the actual seasonal incidence during 1945:

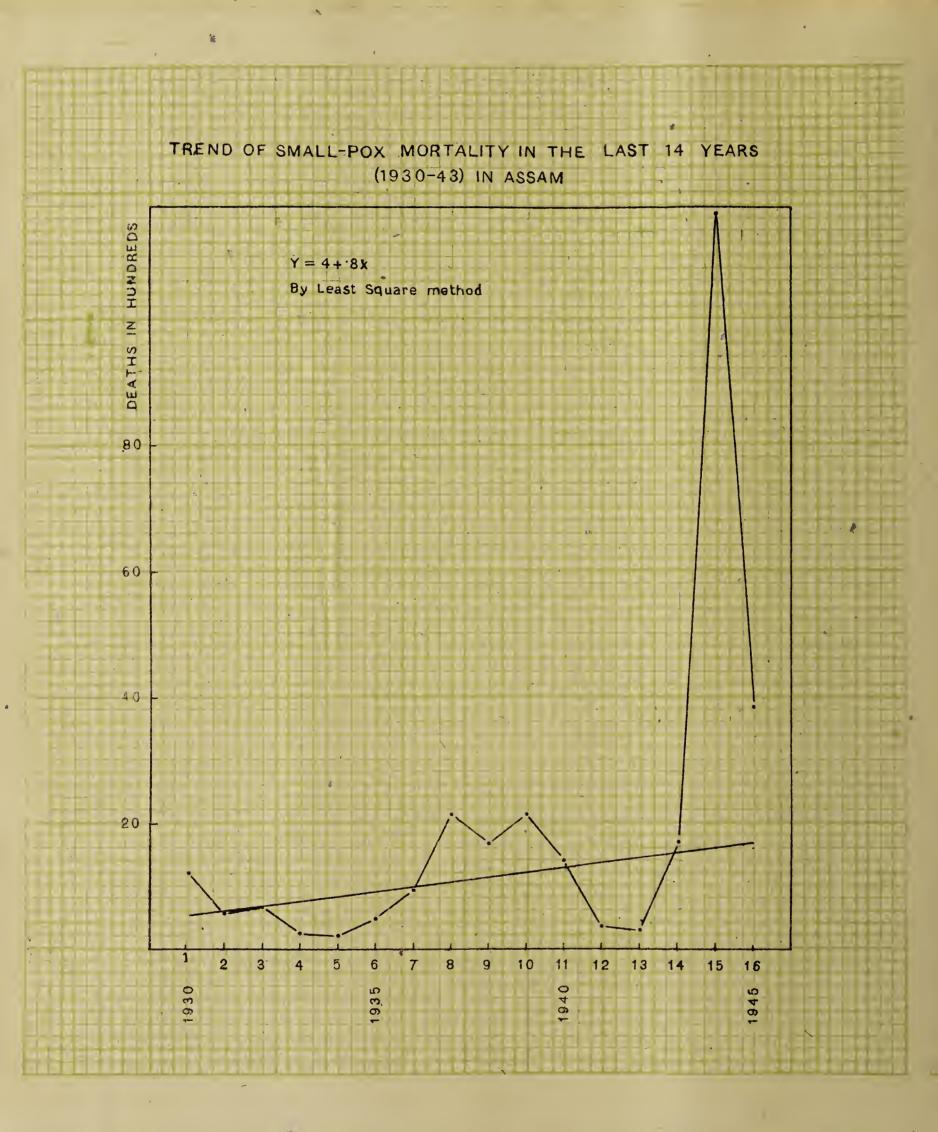




During the year, total deaths due to Cholera were 3,030 as compared to 4,107 during 1944 and 15,454 during 1943. As in previous years, Sylhet district recorded the highest number of deaths from Cholera 2,006 cases, or 66 per cent. of the total Cholera mortality with a death-rate of 61 per mille. Cholera did not occur in epidemic form in any part of the Province throughout the year.

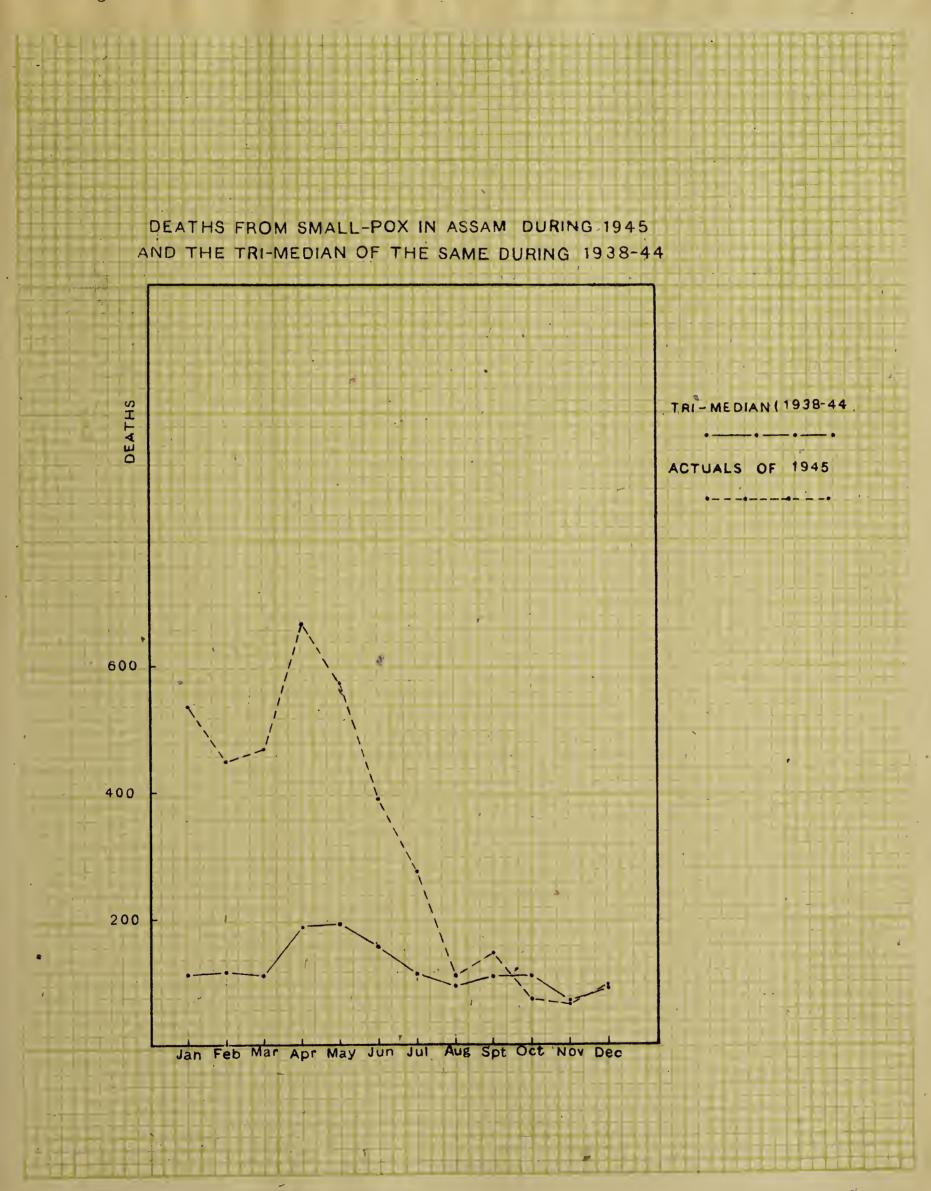
36. Small-pox.—An analysis of Small-pox mortality figures for the years 1930-1943 shows a slight upward

trend in the incidence of Small-pox, as indicated in the graph below:—



The epidemic of 1944 was carried into the early part of the year and subsided gradually. There were 3,838 deaths from Small-pox during the year as compared to 11,728 during 1944 and 1,692 during 1943. Epidemiologically it was not a satisfactory year. Sibsagar district recorded an unusually high incidence of Small-pox, with a death-rate of '71 per mille. The urban and rural death-rates due to Small-pox were '25 and '38 respectively during 1945 as compared to 1'43 and 1'18 during 1944.

A graph showing the average seasonal incidence of Small-pox and the actual seasonal incidence during 1945 is given below:—



#### CHAPTER V

#### Fairs and Festival

37. A large number of fairs and festivals are observed annually in different parts of the Province where water-supply and sanitary arrangements are supervised by the Public Health Staff. Vaccination against Small-pox and Anti Cholera inoculation are also carried out. The number of major fairs or hindu festivals held during 1945 was 18.

Most of the big festivals are observed during the spring and early summer months—a period during which there is everpresent danger of spread of Cholera in epidemic form. Inspite of the limited facilities and staff available no epidemic occurred in connection with any festival during the year. The more important festivals held during 1945, were—Ambubasi Mela on Kamakhya Hills, Darranga Mela in Kamrup district, Mohamaya Mela at Bagoribari in Goalpara district, Shibratri Mela on Bhuban Hills, Sidheswari Baruni Mela in Cachar district, and Dhaka Dhakhin Thakurbari Mela in Sylhet district. Large amounts are spent every year for temporary sanitary arrangements at these gatherings and it is proposed to provide protected water-supply and efficient conservancy system on a semi-permanent basis at the sites where the bigger annual gatherings are held.

Notifications were published in the Assam Gazette and in the local press stressing the advisability of taking Anti-Cholera inoculation and Anti-Small-pox vaccination by the intending pilgrims to festivals—both within and outside the Province. Certificates of Anti-Cholera inculation were issued to those proceeding to major gatherings in other Province.

#### CHAPTER VI

#### Urban sanitation and water supply

38. There are 18 Municipalities and 10 town committees in the Province. Urban Health Officers were provided by the Public Health Department for ten Municipal towns during 1945. The Shillong Municipality employs a fully qualified Medical Officer of Health. The Municipalities also employ Sanitary and Conservancy Inspectors, Vaccinators and other staff for sanitary and health services. The total income of all the Town Committees and Municipalities during 1945 was Rs.16,79,763 as compared to Rs.15,46,254 during the preceding year. A sum of Rs.10,27,553 or 66 per cent. of the total income was spent on sanitary and health services during 1945 as compared to Rs.9,37,035 or 60 per cent. during 1944.

Periodical inspections of Municipal Towns are made by the Assistant Directors of Public Health and recommendations for improvement made. But, it is noted with regret that sanitary conditions in almost all the towns of the Province remained very unsatisfactory during the year—partly due to indifference on the part of Municipal authorities and partly due to non-availability of materials and staff or lack of funds. Populations of towns have increased, but there is no planned expansion and development.

39. Only ten towns in the Province (6 in the plains districts and 4 in Hills districts) have piped water-supply systems. In the bigger towns, where the supply of water is inadequate and the plants old and defective, no improvement was carried out during the year. No Municipality is in a financial position to install new water supply plants and it is to be hoped that the Provincial Government would help them by making percentage grants or permitting loans for the purpose. Some of the bigger towns, especially Gauhati, Jorhat, Sylhet and Tezpur require immediate improvements and extensions in their plants to increase the quantity of water and ensure constant safe supply. Some of the district towns, e.g, Dibrugarh and Nowgong are still without a piped water supply system and inspite of repeated exhortations enough attention is not given to this important problem by the civic authorities.

#### CHAPTER VII

#### Rural Sanitation

40. According to the 1941 census 97 per cent. of the people of the Province live in rural areas, but the sanitary conditions of the villages continue to be as primitive as ever. The Local Boards are responsible for furthering the cause of rural sanitation, but these bodies always suffer from lack of funds and hardly any improvement is made from year to year. The Public Health Department staff carries out health measures in rural areas by mass inoculation against Cholera in infected areas and by mass vaccination against Small-pox throughout the Province apart from general sanitary supervision and disinfection of sources of water-supply and health propaganda among the rural masses. The Dispensaries of the Department, all located in rural areas, treat patients of Kola-azar, Malaria, Yaws, Leprosy, Dysentery and Diarrhoea, etc. Anti-Malaria Drugs are also distributed through village Post Offices.

During 1945, out of a total income of Rs.37,91,082 only Rs.2,62,437 or 7 per cent, was spent on rural sanitation by the Local Boards in the Province.

No appreciable improvement was made during the year in the sources of water-supply in rural areas.

#### CHAPTER VIII

#### Malaria

41. Malaria is responsible for a very large percentage of morbidity and mortality in the Province. During the year, the total number of Malaria cases treated at both Public Health and Medical Department Dispensaries, was 9,51,730 as compared to 8,69,993 during 1944. This number is probably a small fraction of the total population who suffer from Malaria every year and to whom no medical aid is available. As mentioned before 65.4 per cent. of the total mortality during 1945 was due to "Fevers" mainly Malaria.

Anti-Mosquito measures were carried out by the Department in 27 selected localities, apart from the Anti-Malaria measures carried out by the railway authorities in 88 railway station areas.

The Anti-Adult spraying with Pyrethrum started at Baniyachong during 1944 was continued throughout the year. The fifty bedded emergency hospital at Baniyachong also continued to function, as also the Malaria treatment centres. Conditions returned to normal by the end of the year.

|                          | Cinchona | On payment         | gr. Lbs. oz. d <b>r.</b> gr | 000            |  | 000                | 00  |                                   | 0 0                              | 0 0 0 0     |  |  |                  |           | Cinchona         | On payment          | bs. oz. dr. gr.       |                  | o o o              | 000                | 0 0                   |                                       | 0 0                        | 0 0 0 0                      |
|--------------------------|----------|--------------------|-----------------------------|----------------|--|--------------------|---|-----------------------------------|----------------------------------|-------------|--|--|------------------|-----------|------------------|---------------------|-----------------------|------------------|--------------------|--------------------|-----------------------|---------------------------------------|----------------------------|------------------------------|
| ment                     | Cir      | ၁                  | Lbs. oz. dr gr. L           | 12 0 0 0 0 0 0 |  | 0 0 0              | ; . 0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° |                                   | 0 0 0                            | 32 8 0 0    |  |  |                  | nent      |                  | Free Or             | os. oz. dr. gr. Llos. | 1 15 0 0         | 12 0 0             |                    | 0 0 0                 | 000                                   | 0 0 0                      | 12 0 0                       |
| Jail Department          |          | Lbs. oz. dr. gr. L | 0 0 0                       |                | 000                                      | 000                | 000                                       | 0 0                               | 0 0 0 0 3                        |             | A STATE OF THE PROPERTY OF THE |  | Other Department |           | On payment       | s. oz. dr. gr. Lbs. | 000                   |                  |                    | 0 0 0              | 0 0 0 0 0 0 0         | 0 0 0                                 | 2 8 0 0 28                 |                              |
|                          | Qvinine  | Free               | oz. dr. gr.                 | 0 0 0 0        | 14 0 0<br>0 0 0                          | 2 0 0              | 0 0 0                                     | 000                               | 0 0 0                            | 2 1 0 0     |  | The state of the s |                  |           | Quinine          | Free O              | s. oz. dr. gr. Lbs.   | 0 0 0 0 12 6 0   | 10 0 0<br>14 0 0   |                    | 000                   | 0 0 0                                 | 0 0 0                      | 13 4 0                       |
| . 1                      |          | On payment         | Lbs. oz. dr. gr.Lbs.        | 0 0 0          | 000                                      | 000                | 0 0 0                                     | 000                               | 0 0 0                            | 0 0 0 0 42  |  | A THE STATE OF THE |                  |           | Cinchona         | On payment          | s. oz. dr. gr. Lbs.   | 0 0 0            |                    |                    |                       |                                       | 0 0 0                      | 46 10 1 0 260                |
| Department               | Cinchona | Free               | Lbs. oz. dr. gr. L          |                | 30                                       | ) O O O O          | 0 4 4                                     |                                   | 14                               | 8 · 2 0     |  |  |                  | , pu      |                  | Free . C            | bs. oz. dr. gr. Lbs.  | 10 0 0<br>13 0 0 | 0 0 0<br>13 0 0    |                    | 10 3 0                |                                       | 0 0 6                      | 12 3 0                       |
| Medical Dep              | -        | On payment         | Lbs. oz. dr. gr Ľl          | 0 0            | 0 0 0 0                                  |                    | 0000                                      |                                   | 0000                             | 0 0 0 0 390 |  |  |                  | Local Eur |                  | On payment          | oz. dr. gr. L         | 5 0 0            | 0 0 0              |                    |                       |                                       | 0 0 0                      | 37 5 0 0 287                 |
|                          | Quinine  | Free               | Lbs. 5z. dr. gr. L          | 00             | 1 2 4 0                                  | 0 2 9              | 0 0 0                                     | 47 13 0 0<br>39 12 0 0            | 3 0                              | 1 13 5 0    |  |  |                  |           | Onining          |                     | s. oz. dr. gr Lbs.    | 10 3             | 0 0 0 8            | 5<br>0<br>0        | 0<br>11 4             |                                       | 0 0                        | 4 3 0                        |
|                          |          | On payment         | Lbs. oz. dr. gr Lb          | 0 0 0          | 0 0 0 0 0 0                              | 11 4 0             |   |                                   | 0 0 0                            | 2 11 4 0 54 |  |  | 4                |           |                  | On payment          |                       |                  | 0000               | 0 0 0 0            | 0 0 0                 |                                       |                            | 0 0 0 3                      |
| artment                  | Cinchona | Free               | Lbs. oz. dr. gr L           | 51 15          | 0 20 20 20 20 20 20 20 20 20 20 20 20 20 | 13 0<br>12 5       | n <b>o</b> c                              | . 0 0 0 0                         | 0 0                              | 9 14 0 0    |  |  |                  | 1         | Rifics Hospitals | Free                | oz. dr. gr. ]         | 1 3 0 0          | 000                | 0 0 8              | 0 0                   | 4 12 9 0                              | 0 4 6                      | 10 0                         |
| Public Health Department | ine      | On payment         | Lbs. oz. dr. gr L           | 19 11 0 0      |  | 0 0 0              |   |                                   | 0 0 0                            | 9 11 0 0 25 |  |  |                  |           | and Assam        | On payment          | Lbs. oz. dr. gr. Lbs. |                  |                    |                    | 0 0                   | 0 0 0 0                               | 000                        | 0 0 0                        |
| Pu                       | Quinine  | Free               | Lbs. oz. dr. gr. I          | 0 0            | ) (C) (C)                                | 5 0                | 13  |                                   | 20 0                             | 1 10        |  | *  |                  |           | Police           | Quinine             | Tr. Ll                | ဆ                | 00                 | 00 c               | 000                   | 3 8 0 0                               | 000                        | 5 14 U                       |
|                          |          |                    |                             | :              | :::                                      | :::                | ::  |                                   |                                  | ·           | 1  |  |                  |           |                  |                     |                       | :                | ::                 |                    |                       | ::                                    | ::                         |                              |
|                          |          | Districts          |                             | :              | :::                                      | :::                |   | inta Hills                        |                                  | otal        |  |  |                  |           |                  | Districts           |                       | :                |                    | ; ; ;              |                       | aintia Hills                          | : :                        | iier Iract<br>'Fotal         |
| ,                        |          |                    |                             | Cachar         | Sylnet<br>Goalpara<br>Kameun             | Darrang<br>Nowgong | Sibsagar<br>Lakhimpur                     | Khasi and Jaimta Hills Naga Hills | Garo Hills Sadiva Frontier Tract |             |  |  | Sec. Constituted |           |                  |                     |                       | Cachar           | Sylhet<br>Goalpara | Darrang<br>Nowgong | Sibsagar<br>Lakhimpur | Khasi and Jaintia Hills<br>Naga Hills | Lushai Hills<br>Garo Hills | Sadiya Fronticr Tract 'Fotal |

The Assam Medical Research Society was dissolved and a Malaria Section under the Public Health Department was started on the 1st August 1945, with a Malariologist-in-charge. Damage to the Shari bridge on the Sylhet Road during the monsoon period necessitated the maintenance of a ferry system and the billetting of a large number of labourers and technical staff in this notoriously malarious area. A rapid Malaria Survey was carried out and necessary control measures instituted. During the year, spraying with D. D. T. was introduced at Nongpoh. No training class for Malaria Inspectors was held during the year. As usual, indentification of larvae and adults was carried out and 212 mosquitoes dissected during the year—with no positive finding.

42. Sale of quinine.—The sale of quinine and its substitutes continued to remain under Government control. Distribution of the drugs was centralised at the Public Health Laboratory, Shillong under the supervision of the Director of Public Health. During the year 3,455 parcels of Anti-Malaria drugs, of the total cost of about Rs. 9,41,542 were distributed from the Public Health Laboratory. Distribution of Mepacrine through Post Offices in the rural areas was started from the 1st June 1945, and by the end of the year 2,939 boxes of Mepacrine tablets, each containing 20 treatment packets of 15 tablets were issued to different Post Offices for sale in the rural areas. In addition, the Public Health Laboratory issued during the year 2,27,82,368 tablets of Quinine substitutes and 33,211 boxes of Quinine Ampoules throughout the Province.

The following table shows the distribution of Quinine and Cinchona Febrifuge by the Public Health Department to the different consumers throughout the Province.

| Name of Consumer   | Quinine sulphate | Cinchona Febrifuge     |                  |  |  |
|--|------------------|------------------------|------------------|--|--|
| Political Secretary, Commerce Group, for the use of Gardens. | Member           | 3,480 lbs.             | Nil.             |  |  |
| Non-Member Gardens   |                  | 322 lbs.               | 3 lbs.           |  |  |
| Agents for sale to the Public                                |                  | 679 lbs. 10 oz.        | 2 lbs.           |  |  |
| Private Dispensaries   | • •••            | 55 lbs. 14 oz.         | 7 lbs.           |  |  |
| Employers of Labour other than Tea Industry                  |                  | 207 lbs. 8 oz.         | Nil.             |  |  |
| Government Departments and Local Bodies                      |                  | 1,920 lbs. 7 oz. 3 dr. | 1,564 lbs. 6 oz. |  |  |
| Total  | • •••            | 6,665 lbs. 7 oz. 3 dr. | 1,576 lbs. 6 oz. |  |  |

A statement showing the quantities of Quinine and secondary Alkaloids of Cinchona distributed free or at reduced rate by the Public Health, Medical, and other Departments during 1945 is appended.

#### CHAPTER IX

#### Maternity and Child Welfare

43. During the year, 22,008 infants died giving an infant mortality-rate of 130.51 per thousand of live births. Maternal mortality-rate during the year was 17.02 per 1,000 births (including still births) as compared to 18.22 during 1944. In the rural areas, the maternal mortality-rate was 17.12 and in urban areas 14.20.

Maternity and Child Welfare work in the Province is still almost entirely under the aegis of the Red Cross Society which has branches in all districts. Most of the centres were short of staff and could not maintain a high standard of efficiency. The Maternity and Child Welfare centres at Shillong, Silchar, Tezpur, Jorhat and Sylhet did commendable work during the year.

Training of Midwives, was started, during the year, at the Ganesh Das Hospital for Women, Shillong. Training of Dais was carried on, as in previous years, at the various Hospitals and Welfare Centres. One student was sent to Sir John Anderson Health School, Calcutta, for training as Health Visitor, and 4 to the Dufferin Hospital, Calcutta, for Midwifery training. One student passed the Health Visitor's course during 1945.

During the year, 10 Welfare Centres functioned—all in urban areas. The local bodies employ a certain number of trained Dais for work in the rural areas.

The Post-War Reconstruction Scheme for organising Maternity and Child Welfare work in the Province under the Public Health Department is under the consideration of Government.

#### CHAPTER X

#### School Hygiene and Medical Inspection of School Children

44. There is no cadre of School Health Officers in the Province and the Post-War Reconstruction Scheme for the provision of a School Health service is still under consideration. Schools were visited and children inspected as far as possible by the Public Health Department staff during the course of their routine work. Short talks on health and hygiene were also given to the students and the staff. Routine Medical inspection of selected schools was carried out and suggestions made for the improvement of general sanitation, better Physical training and the teaching of Hygiene.

# CHAPTER-XI

# Health Propaganda

- 45. Health propaganda was carried out mainly in the rural areas by the Public Health Department staff with the aid of Magic Lantern demonstrations and health stalls and exhibitions at fairs and festivals and other public gatherings. Leaflets, Posters and Pamphlets were distributed and short talks given at meetings organised by the village health and sanitation committees, which now exist in many areas of the Province. The Scheme for centralising all publicity and propaganda under the Publicity Department did not come to fruition during the year, but the existing Publicity and Rural Development Department carried out a certain amount of health propaganda under our guidance and rendered valuable help in organising mass Vaccination campaign throughout the Province.
- 46. Provincial Tuberculosis Association.—Further progress was recorded in the activities of the Provincial Tuberculosis Association as a result of increased interest and generosity of the public. This was reflected in the increased amount of donations during the year amounting to Rs. 14,261 as compared to Rs. 11,461 during 1944. In addition to this amount, the Shillong Gymkhana Race Committee donated Rs. 18,704-8-0 for the Reid Chest Hospital and a model Dairy was built and extension made to the Nurses' quarters. The accommodation at the Chest Hospital was increased from 47 to 56 beds during the year. The total number of admissions to the Chest Hospital during the year was 45 and discharges 32 as compared to 37 and 20' respectively of the previous year; a total of 1,832 patients (1,469 at Shillong, and 363 at Dibrugarh) attended Clinics as compared to 952 during 1944.

An Assistant Superintendent, a Resident Medical Officer and an Honorary Physician were appointed for the Chest Hospital. Sanction was also accorded for the appointment of a Matron and 4 Nurses. It is hoped to start regular courses of training in Tuberculosis for the Doctors of the Province, both Government servants and private practitioners. Three suitable girls were sent to Delhi for undergoing the Health Visitors' course.

Provincialisation of the Reid Provincial Chest Hospital is still under consideration. Anti-Tuberculosis propaganda work was carried on as usual. A copy of the film "How Tuberculosis spreads" was purchased by the Association and shown in various Cinema Houses in the Province.

Special mention must be made of the enthusiasm shown by Mr. M. Khurshid, 1.c.s., Deputy Commissioner, Sylhet, who has raised a large sum for the construction of an up-to-date Tuberculosis Hospital and Clinic at Sylhet.

# CHAPTER—XII

# Public Health Administration

- 47. The notable event of the year was the creation of a Malaria Section of the Public Health Department to serve as a nucleus and headquarters for the Anti-Malaria organisation. No further advance has been made towards strengthening and increasing public health services in the Province. Acute shortage of Doctors continued during the year. The sub-charge of the Government Vaccine Depôt, Shillong, was deputed during 1945 for training in the technique of manufacture of vaccine lymph at the King Institute, Guindy, Madras. Two licentiate Doctors were sent for a refresher course in Leprosy held at the Calcutta School of Tropical Medicine. An experienced Chemist, with a Master's degree in Chemistry and specially trained in food and water analytical and bacteriological work was appointed Public Analyst and Officer in charge, Provincial Public Health Laboratory.
- 48. The budget allotments for the year 1944-45 and 1945-46 amounted to Rs.14,49,100 and Rs.17,55,400 respectively. The increased allotment for 1945-46 was mainly due to an increase under epidemic diseases (Malaria).

The strength of the technical personnel of the Public Health Department during the year was as follows:—

| Director of Public Healt   | h                            | •••      |               | •••     | • • •    | •••        | • • •   | •••    |
|--|------------------------------|----------|---------------|---------|----------|------------|---------|--------|
| Assistant Directors of Po  | ablic Health                 | •••      | •••           | •••     | •••      | •••        | • • •   | 3      |
| District Medical Officer   | s of Health                  |          | •••           | • • •   | ·        | • • •      | •••     | 8      |
| Malariologist In-charge  | , Malaria Secti              | on       | •••           | • • •   | •••      | * * *      | • • •   | 1      |
| Subdivisional Medical C  | Officers of Heal             | th (Lice | ntiates)      | * * *   | •••      | ***        |         | 11     |
| Urban Health Officers  | (Licentiates)                | •••      |               | • • •   | •••      | • • •      | • • •   | 10     |
| Licentiate Doctors on  | Epidemic Ma                  | laria an | d General     | Public  | Health d | uty (incl  | uding   | 102    |
| Public Health Disp   |                              |          |               |         |          | acy (IIIC) | ading , | 104    |
|  | ensaries and K               |          |               |         | •••      |            |         | 102    |
| Special Leprosy Officer  | ensaries and K               |          | Hospital      | s).     |          |            |         | l<br>1 |
| Public Health Disp Special Leprosy Officer Public Analyst                            | ensaries and K (Licentiate)  | ala-Azar | ···· Hospital | s).     | •••      |            |         | 1      |
| Public Health Disp Special Leprosy Officer Public Analyst Statistician  Entemployist | ensaries and K (Licentiate)  | ala-Azar | ···· Hospital | s).<br> | ••• .    |            |         | 1<br>1 |
| Public Health Disp Special Leprosy Officer Public Analyst Statistician               | censaries and K (Licentiate) | ala-Azar | ··· Hospital  | s).<br> | •••      |            |         | l<br>1 |

The Shillong Municipal Board employs a qualified Health Officer (M.B., D.P.H.) whose salary is met partly by a contribution from Government.

# CHAPTER—XIII

## Vaccination

49. This Chapter and all the Statistical tables connected with it refer to the calender year 1945.

Mass vaccination was carried on throughout the Province during the winter months. Routine vaccination is suspended during the hot and rainy months except in affected areas. The lymph used for vaccination is prepared and supplied by the Government Vaccine Depôt, Shillong, and the instrument used is the rotary lancet.

50. Staff.—The total number of Vaccinators employed in the Province during the year was 546, viz., 482 Local Board, 27 Municipal Board, 2 Development Board and 35 Government Vaccinators. The number of Vaccinators employed by the Manipur State is not known. Among the labour population employed by the Tea Industry, Railways, etc., and in Jails and Asylums vaccination was performed by their respective Medical staff. Doctors in charge Rural Dispensaries and on epidemic duty and the Rural Health Inspectors of the Department also performed vaccination in addition to checking the work of the Vaccinators.

51. Vaccination, General — The total number of vaccination operations recorded as performed during the year by all agencies in the Province was 1,395,041; of these 4,30,734 were primary and 9,64,307 revaccinations. Compared to the preceding year, there was a fall in the number of vaccination by 5,12,830, due to

the decreased prevalence of Small-pox during this year.

The total number of vaccination operations performed by all agencies during the year 1945 and the previous year is classified below:—

| A. Primary  | Vacc    | cination | n.         |          |            |           |        |     | 1945             | 1944      |
|-------------|---------|----------|------------|----------|------------|-----------|--------|-----|------------------|-----------|
| (1) Succ    | essfu   | 1.       | ,          |          |            |           |        |     |                  |           |
| (a) Age     |         | ,        | 1 year     | •••      | • • •      | •••       | •••    | ••• | 82,550           | 86,798    |
| (b)         | 1       |          | 5 years    | s        | •••        | •••       |        |     | 231,620          | 289,896   |
| (c)         | 5       | •••      | 10 years   | s !      | •••        | •••       | •••    | ·   | 58,200           | 80,251    |
|             |         |          | Total of s | uccessfu | l primama  | ary vacci | nation |     | 3 <b>86</b> ,968 | 467,525   |
|             |         |          | Total of p | ri mary  | vaccinatio | on        | •      | ••• | 430,734          | 532,098   |
| B. Re-vacca | ination | r.       |            |          |            |           |        |     |                  |           |
| Successful  |         | •••      | • • •      | •••      | •••        | •••       | .•••   | ••• | 642,788          | 789,530   |
|             |         |          |            |          | Total of   | re-vaccii | nation |     | 964,307          | 1,375,773 |
|             |         |          | ,          |          | GR         | AND TO    | OTAL   |     | 1,395,041        | 1,907,871 |

Out of a total of 1,68,632 live births during the year 1,46,624 infants survived the 1st year of life, but of these only 82,550 or 56 per cent. were successfully vaccinated. Large number of infants remain unprotected every year and this probably applies to all age groups.

52. Vaccination work by districts.—The table below shows increase or decrease in vaccination operation

performed in different districts as compared to the preceding year.

|                      |       |       |       |         | 1945      | 1944            | +Increase.     |
|----------------------|-------|-------|-------|---------|-----------|-----------------|----------------|
|                      |       |       |       |         | 1/40      | 1977            | —Decrease.     |
| Cachar               | •••   | •••   | •••   | •••     | 112,404   | 126,384         | 13,980         |
| Sylhet               | • • • | •••   | • • • | • • •   | 366,525   | 650,980         | -284,455       |
| Goalpara             | •••   | •••   | •••   | ***     | 129,224   | 138,356         | 9,132          |
| Kamrup               | •••   | •••   | • • • | •••     | 126,829   | 174,248         | -47,419        |
| Darrang              | •••   | •••   | •••   |         | 117,865   | 162,447         | -44,582        |
| Nowgong              | • • • |       | • • • | 0 10 76 | 110,521   | 226,855         | 116,334        |
| Sibsagar             |       |       | •••   | =       | 113,426   | 145,583         | -32,157        |
| Lakhimpur            | •••   | •••   | •••   | •••     | 152,301   | 96,396          | +55,905        |
| Khasi and Jaintia    | Hills | •••   | •••   | •••     | 55,454    | 76,142          | 20,688         |
| Naga Hills           | •••   | •••   | •••   | •••     | 21,984    | 26,387          | <b>-4,4</b> 03 |
| Lushai Hills         | •••   | •••   | •••   | •••     | 19,466    | 17,674          | +1,792         |
| Garo Hills           | •••   | •••   | •••   | •••     | 15,145    | 15,717          | 572            |
| Manipur State        | •••   | •••   | • • • |         | 32,839    | 43,335          | -11,046        |
| - Sađiya Frontier Tr | act   | • • • | •••   | •••     | 21,058    | 6,817           | +14,241        |
| Balipara Frontier    | Tract | • • • | •••   | • • •   |           | Figures not ava | ailable.       |
|                      | 100   |       | Total | •••     | 1,395,041 | 1,907,871       | -512,830       |

53. Vaccination in rural areas.—Though vaccination is not compulsory in the rural areas, every facility and encouragement is given to the people to get themselves vaccinated. During 1945, 1,217,949 vaccinations were performed in the rural areas as compared to 1,702,193 during the previous year. Some opposition to vaccination is still met with during non-epidemic periods and to over come this and give effect to mass vaccination, regulations under the Epidemic Diseases Act, 1897 are brought into force in the affected areas. During the year, Darrang and Lakhimpur districts, Sunamganj Subdivision, and some areas of Goalpara district were declared as Small-pox infected areas.

54. Vaccination in Municipal Towns.—In towns, where primary vaccination is compulsory out of 5,659 infants who survived 2,365 or 41.79 per cent. were successfully vaccinated as compared to 44.42 per cent. during 1944. The Municipal authorities do not give adequate attention to this important health measure and the Municipal vaccination work remains much below standard and the vaccinators perhaps the most ill paid employees of the Municipal Boards. The following towns recorded exceptionally low percentage of

successful infantile vaccination.

Hailakandi (6·25), Nazira (15·51), Srimangal (17·94), Habiganj (20·00), Sunamganj (23·16), Jorhat (26.21), Golaghat (26.54), Barpeta (31.27), North-Lakhimpur (31.70), Shillong (35.33), Mangaldai (36.11), Sylhet (36.56), Tezpur (36.98) and Sibsagar (43.47).

The following towns recorded high percentage of successful vaccination.

Gauripur (77.5), Doom Dooma (77.5) Nalbari (72.72), Nowgong (70.1), Dhubri (69.52), Silchar (56.87),

Tinsukia (55.66), Karimganj (54.12) and Goalpara (50.41).

55. Percentage of successful vaccination and inspection of vaccination.—The percentage of successful vaccination performed by all agencies during the year was 94.70 for primary vaccination and 64.04 for re-vaccination as compared to 92.57 and 67.35 respectively in the preceding year.

The routine inspection of vaccination is carried out by the Rural Health Inspectors. Directors of Public Health, District Medical Officers of Health and Subdivisional Medical Officers of Health

also carry out inspection of vaccination in the rural areas during their tours.

56. Deaths from Small-pox.—The total number of deaths in the Province due to Small-pox during the year was 3,888 (3,838 in plains districts and 50 in Hill districts) as compared to 12,091 (11,728 in plains districts and 363 in Hill district) during the previous year. The ratio of deaths from Small-pox 0.37 per mille of population as compared to 1.21 in the previous year. The following statement gives mortality figures due to Small-pox by districts as compiled from the vital statistical returns and it is probable that these figures also include deaths from Measles and Chicken-pox:

|                    |       |       |       |          | Dea   | aths nuder<br>one year | Deaths between the age of one to ten. | Total number of deaths |
|--------------------|-------|-------|-------|----------|-------|------------------------|---------------------------------------|------------------------|
|                    |       | 1     |       |          |       | 2                      | 3                                     | 4, .                   |
| Cachar             | •••   | •••   |       | •••      | •••   | 6                      | 13                                    | 62                     |
| Sylhet             |       | •••   | •••   | · · · ·  |       | 114                    | <b>2</b> 31                           | 1,834                  |
| Goalpara           | • • • | • • • | •••   | •••      | • • • | • • •                  | •••                                   | 80                     |
| Kamrup             |       | •••   | • • • |          | •••   | · 22                   | 72                                    | 621                    |
| Darrang            | • • • | •••   | •••   | •••      | •••   | 5                      | 2                                     | • 67                   |
| Nowgong            | •••   | •••   |       | •••      | •••   | 15                     | 15                                    | 149                    |
| Sibsagar           |       | •••   |       | •••      | •••   | 76                     | 112                                   | 807                    |
| Lakhimpur          |       | • • • |       | . •••    |       | 3                      | •••                                   | 218                    |
| Khasi and Jaintia  | Hills | •••   |       | •••      |       | •••                    | •••                                   | 6                      |
| Naga Hills         | •••   | • • • | • • • | •••      | •••   | •••                    | •••                                   |                        |
| Lushai Hills       |       | •••   |       | <b>r</b> |       | 2 44                   | •••                                   | 2                      |
| Garo Hills         | •••   | •••   |       | •••      |       | •••                    | •••                                   | 6                      |
| Manipur State      | •••   | •••   | •••   | •••      | •••   | No                     | t known                               | • • •                  |
| Sadya Frontier Tra | act   | •••   | •••   | • * •    | •••   | •••                    | •••                                   | 36                     |
| Balipara Frontier  | Tract | •••   | •••   | •••      | •••   | •••                    | •••                                   | •••                    |
|                    |       |       | į.    | Ţotal    | •••   | 241                    | 445                                   | 3,888                  |

57. Government Vaccine Depot, Shillong.—This report on the working of the Vaccine Depôt refers to the financial year 1945-46.

During the year, the total amount of vaccine lymph manufactured was 2,624,797 doses or 25,216 grams as compared to 29,34,723 doses or 29,164 grams in the preceding year. The number of doses issued to all indentors, Civil and Military, within and outside the Province, was 2,578,718 during the year as compared to

2,872,695 during 1944.

During the year, 714 Cow Calves, 19 Buffalo Calves and 25 Rabbits were used as compared to 1,097 Cow Calves and 20 Buffalo Calves during the previous year. Out of 714 Calves hired during 1945-46, 66 Calves were used for potency tests, 36 became sick, 25 failed and 7 produced unsatisfactory vesicles. Lymph was taken from the remaining 582 Calves, and the average yield of vaccine lymph per calf during the year was 4,510 doses or 43.31 grams as compared to 3,974 doses or 39.46 grams during the previous The cost of manufacture per dose amounted to 4.56 pies during the year as compared to 5.38 pies All the batches were tested for potency and sterility before despatch and gave in the previous year. uniformly satisfactory results. Field tests on children gave 100 per cent. insertion success.

The total working cost of the Vaccine Depôt was Rs.62,408 during the year as compared to Rs.82,247 during 1944, and the total income from sale of Vaccine Lymph was Rs, 54,559.

Dr. P. C. Barooah continued in subordinate charge of the Depôt during the year. He was sent for a month's training in the modern technique of vaccine lamph manufacture at the King Institute, Guindy, Madras. Dr. Barooah's work has been entirely satisfactory and appreciable improvement in some directions was affected during the year, e.g., increase in the yield of pulp per calf, and reduction in sickness and in the average cost of production.

# CHAPTER-XIV

## Other Public Health Services

- 58. Industrial hygiene.—No improvement in the housing conditions of industrial labour was affected during the year. Regular inspection of factories was carried out by the Assistant Directors of Public Health, who are also ex-officio additional Inspector of factories and suggestions made for the improvement of sanitary conditions. The general standard of industrial health and hygiene remains unsatisfactory except in some of the larger Tea Estates and in the oil industry at Digboi and the Cement Factory at Chhattak. The worst offenders are the rice and oil mills.
  - 59. Mines.—No mines were inspected by any of the Public Health staff during the year.
- 60. Food adulteration.—During 1945, a total of 422 samples of food-stuffs received and analysed by the Public Analyst as compared to 156 during 1944. Of the total number of samples received by the Provincial Public Health Laboratory, 309 were received from the Municipal Boards, 17 from Local Boards 27 from Town Committees and 69 from other sources. The samples analysed were Mustard oil (261), Milk (81), Ghee (36), Atta and Maida (14), Butter (7), Dal (5), Tea (4), Sugar (3), Salt and Rice (2 each) and Cocogem, Groundnut Oil, Orange bitters, Turmeric (1 each). Of these, 246 samples or 53 per cent. were found adulterated. The percentage of adulteration in respect of Mustard oil was 57 per cent. Ghee 47 per cent. Milk 79 per cent. Atta and Maida 28 per cent. and Butter 57 per cent. The number of convictions secured by the Local Bodies under Assam Pure Food Act was approximately 131 and the total approximate amount imposed as fines was Rs.6,105 as compared to 92 and Rs.2,300 during 1944. In addition, a number of cases were locally disposed of with a warning.

From the following local bodies, samples of food-stuffs as given against each were received during the year.

# Municipal Boards

Barpeta (7), Dhubri (42), Dibrugarh (8), Gauhati (17), Goalpara (7), Jorhat (7), Karimganj (34), Golaghat (12), Maulvibazar (24), Nowgong (4), Shillong (61), Silchar (42), Sylhet (23), Sibsagar (4), Habiganj (7), Tezpur (6) and Tinsukia (3).

# Local Boards

Habiganj (1), Maulvibazar (1), North Lakhimpur (5), Sibsagar (7), Sunamganj (2) Tezpur (1).

# **Town Committee**

Doom Doma (5), Hailakandi (4), Mangaldai (4), Nazira (1), Nalbari (4), Palasbari (3), Srimangal (1).

The comparatively small number of samples sent for analysis by the local bodies does not convey a true picture of the extent of food adulteration prevalent all over the Province.

The revision of the Assam Pure Food Act, so as to make it more effective, is under contemplation.

61. Provincial Public Health Laboratory.—During the year 1945, there was increased work on the analytical side; a total number of 424 food-stuffs were examined as against 156 in the previous year. The laboratory has now been fairly well equipped with apparatus and chemicals for the purpose of undertaking chemical examination of various articles including articles coming under excise regulations, e.g., liquors, opium, etc. The preparation of injectable Hydnocarpus Oil (Hydnocreol) used for the treatment of Leprosy was successfully undertaken and supplied to the health staff all over the Province.

Besides the analysis of food-stuffs 195 samples of water were examined bacteriologically during the year. The Shillong water supply (which is not chlorinated) was examined at regular intervals, in all 60 samples were tested and the water was found to maintain a satisfactory standard of purity. Water from the Municipal supplies of Jorhat, Tezpur, Gauhati, Dhubri, Sylhet, Silchar and Haflong were collected by the sample taker of the laboratory for Chemical and Bacteriological analysis. At the request of the Excise Department, samples of water from Excise Ware Houses located at Nazira, Tinsukia, Chaparmukh, Srimangal were examined at the Laboratory and necessary recommendations made.

of this angle were examined at the Laboratory and necessary recommendations made.

Altogether 261 Vaccine Lymph were bacteriologically tested during the year. This work was latter transferred to the Pasteur Institute, which has better facilities for elaborate bacteriological work.

The Laboratory continued to act as the Departmental Depôt for the supply of Ureastibamine and Collin Syringe parts. 34,855 grammes Ureastibamine was distributed during the year.

Miscellaneous Chemical Examination and research work.—It was found that Groundnut oil and Vegetable Ghee are widely used for adulterating Mustard Oil and Ghee respectively. After the addition of known quantities of Groundnut Oil or Vegetable Ghee as adulterants, Chemical data were obtained for the purpose of judging whether it was possible to make skilful mixtures so as to evade the Assam Pure Food Rules, 1934, and attempts were made to evolve supplementary tests for the detection of such skilful adulteration. During the investigation it was found that Buffalo-Ghee skilfully adulterated with about 20 per cent. Vegetable-Ghee resembles the prescribed standard for Cow-Ghee except for the Butgro-refractometer reading at 40°C.

Experiments were made on the estimation of free fatty acids for judging the degree of rancidity in Ghee and Butter. In a fresh sample of Ghee this value was about 1.8 per cent. as compared to 2.6 to 5.6 per cent. in rancid samples.

# CHAPTER-XV

62. General Remarks.—The general health conditions in the Province were fairly satisfactory throughout the year. Price levels became steadier and the supply more regular though the quantity and quality of food-stuffs was still much below normal requirements. The steady decline in the birth-rate since 1942 appears to have been checked this year. Infantile mortality-rate was the lowest so far recorded. Although Malaria did not prevail in epidemic form in any part of the Province, the loss of life due to "Fever" remained as high as ever. Free distribution of Anti-Malaria Drugs was extended to all affected areas. Shortage of staff was felt in all activities of the Department. The Assam Medical Research Society was wound up during the year and a Malaria Section under the Public Health Department set up.

- 63. Research Work.—Naga Sore enquiry sponsored by Indian Research Fund Association was continued under the Director, Pasteur Institute, and further progress was made in the epidemiology and becteriology of the disease during the year. No other research work was carried out by any staff of the Department.
- 64. Public Health Legislation.—No legislation bearing on Public Health was taken up during the year. Arrangements are being made for the Revision of the Assam Pure Food Act. The question of framing a Public Health Act will be taken up when the staff situation improves.
- 65. Personal—The executive and ministerial staffs of the Department continued to discharge their duties loyally and satisfactorily. I must specially acknowledge the untiring assistance given to me in the compilation of this Report by Mr. D. C. Das, M. A., Statistician.
- Captain S. C. Dutta, B. Sc., M.B., D.P.H., A.I.R.O., reverted from Military duty to his substantive post of Assistant Director of Public Health during January, 1945.
- Dr. Sribas Das, the Research Officer of the Assam Medical Research Society was appointed Malariologist with effect from 1st August, 1945.

A departure was made from the previous practice of placing an Assistant Surgeon incharge of the Provincial Public Health Laboratory and Mr. B. K. Dutta Roy, M. SC., was appointed Public Analyst for Assam and Officer incharge, Provincial Public Health Laboratory.

I attended the Administrative Medical Officers' Conference, New Delhi during November, 1945. I was incharge of the Department through the year.

Shillong:

The 4th December, 1946.

T. D. AHMAD,

Major I. M. S.,

Director of Public Health, Assam.

STATEMENT No. I-Statement showing the births registered in the districts of Assam during the year 1945

| Mean ratio of births per 1,000 during the previous five years | Total        | 15   |              | 28.76    | 26.18     | 26.60     |   |              | 25.40     | 12.12     | 22.44   | 16.16   | 22.44     | 21.34     | 19.73     | 22.46              |
|---|--------------|------|--------------|----------|-----------|-----------|---|--------------|-----------|-----------|---------|---------|-----------|-----------|-----------|--------------------|
| of births per 1,000<br>previous five years                    | Female       | . 14 |              | 13.96    | 12.51     | 12.75     |   |              | 12.24     | 5.80      | 10-90   | 89.2    | 10.96     | 10.42     | 9.55      | 10.81              |
| Mean ratio o  | Male         | . 13 |              | 14.79    | 13.47     | 13.85     |   |              | 13.16     | 6.32      | 11.54   | 8.48    | 11.48     | 10.92     | 10.18     | 11.65              |
| Number of males born to                                       | females born | 12   |              | 111      | 109       | 109       |   |              | 116       | 64        | 108     | 801     | 109       | 108       | 001       | 104                |
| population  | Total        | 11   |              | 23.46    | 19.20     | 19.89     |   |              | 16.06     | 11.24     | 17.62   | 12.43   | 18.60     | 15.08     | 14.75     | 16.76              |
| Ratio of births per 1,000 of population                       | Female       | 10   |              | 11.16    | 9.19      | 9:51      |   | ,            | 7.42      | 6.85      | 8.48    | 2.97    | 29.6      | 7.27      | 7.36      | 8:21               |
| Ratio of b  | Male         | 6    |              | 12.30    | 10.01     | 10.38     |   |              | 8.64      | 4.39      | 9.14    | 97.9    | 8.93      | 7.81      | 7.39      | 8.55               |
| ths registered  | Total        | 80   | •            | 14,874   | 860,89    | 27,972    |   |              | 17,207    | 15,611    | 14,142  | 9636    | 19,461    | 14,603    | 099,06    | 168,632            |
| Grand total number of births registered                       | Female       | 2    |              | 7,072    | 30,205    | 37,277    |   |              | 7,951     | 9,518     | 6,807   | 4,627   | 9,312     | 7,037     | 45,252    | 82,529             |
| Grand total   | Male         | , 9  |              | 7,802    | 32,893    | 40,695    |   |              | 9,256     | 6,003     | 7,335   | 5,009   | 10,149    | 7,566     | 45,408    | 86,103             |
| noi   | Total        | ည    |              | .634,099 | 3,286,581 | 3,920,680 |   | -            | 1,071,282 | 1,388,762 | 802,645 | 775,025 | 1,136,019 | 968,621   | 6,142,354 | 10,063,034         |
| Estimated population  | Female       | 4    |              | 299,772  | 1,567,658 | 1,867,430 |   |              | 501,875   | 645,999   | 374,730 | 359,875 | 533,231   | 446,188   | 2,861,898 | 4,729,328          |
| Estir   | Male         | က    |              | 334,327  | 1,718,923 | 2,053,250 | • |              | 569,407   | 742,763   | 427,915 | 415,150 | 602,788   | 522,433   | 3,280,456 | 5,333,706          |
| Districts   |              | •    | SURMA VALLEY | Cachar   | Sylhet    | Total     |   | ASSAM VALLEY | Goalpara  | Kamrup    | Darrang | Nowgong | Sibsagar  | Lakhimpur | Total     | Total for the pro- |
| Š.  |              | -    |              | -        | 63        |           |   |              | က်        | 4         | Life    | 9       | ~         | <b>©</b>  |           |                    |

STATEMENT No. II-Statement showing the deaths registered in the districts of Assam during the year 1945

| per 1,000<br>five years                                       |            | Total                  | 2.1 |              | 21.08       | 20.54  | 20.32  |              | 18.98    | 96.8   | 18.14   | 12.17   | 13.92    | 14.49     | 14.01  | 16.54                   |
|---|------------|------------------------|-----|--------------|-------------|--------|--------|--------------|----------|--------|---------|---------|----------|-----------|--------|-------------------------|
| Mean ratio of deaths per 1,000 during the previous five years |            | Female                 | 20  |              | 21.76       | 19.75  | 19.59  |              | 17.95    | 66.8   | 10.61   | 12.39   | 14.07    | 15.37     | 14.27  | 16.59                   |
| Mean ratio of deaths<br>during the previous                   |            | Male                   | 19  |              | 20.81       | 20.58  | 20.61  |              | 19.07    | 8.92   | 17.38   | 11.98   | 13.15    | 13.77     | 13.78  | 16.45                   |
|   |            | IstoT                  | 18  |              | 20.00       | 16.13  | 16.75  |              | 13.84    | 7.24   | 14.03   | 8.40    | 13.71    | 10.97     | 11.20  | 13.37                   |
|   | All causes | Female                 | 17  |              | 20.35       | 16.07  | 16.76  | ,            | 13.21    | 7.48   | 14.43   | 8.43    | 14.64    | 11.45     | 11.47  | 13.56                   |
|   | 7          | Male                   | 16  |              | 19.71       | 16.18  | 16.75  |              | 14.40    | 7.02   | 13.67   | 8.37    | 12.89    | 10.55     | 10.98  | 13.20                   |
|   | səsne:     | • All other o          | 15  |              | 6.34        | 3:37   | 3.75   |              | .59      | .93    | 2.38    | 1.73    | 2.41     | 3.18      | 1.77   | 2.60                    |
| population from-  | ,          | səiruini               | 14  |              | .17         | .15    | .16    |              | .02      | 90.    | .13     | 20.     | .14      | .18       | .10    | .12                     |
|   | , A        | Respirator<br>diseases | 13  |              | <b>.</b> 84 | .26    | .35    |              | .02      | .11    | .48     | .19     | 25.      | -84       | .35    | .35                     |
| r 1,000 o   | pue 1      | Dysentery<br>Diarrhæa  | 12  |              | 1.78        | 1.07   | 1.18   |              | .05      | .27    | .94     | 69.     | 1.39     | .95       | 69.    | 88.                     |
| Deaths per 1,000 of   |            | Fevers                 | 11  |              | 09.01       | 10.11  | 10.19  |              | 13.05    | 5.23   | 9.83    | 5.37    | 8.21     | 5.58      | 7.82   | 8.74                    |
|   |            | Plague                 | 10  |              | :           | :      | :      |              | :        | :      | :       | :       | :,       | •         |        | •                       |
|   |            | xoq-llsm2              | 6   |              | .10         | 92.    | .48    |              | 20.      | .45    | .03     | 62.     | .71      | .23       | .32    | •38                     |
|   |            | Cholera                | ω   |              | .17         | .61    | .54    |              | .04      | .19    | .19     | 16      | .28      | .01       | .15    | .30                     |
| deaths registered   |            | IstoT                  | . 7 |              | 12,687      | 53,005 | 65,692 |              | 14,831   | 10,050 | 11,259  | 6,507   | 15,576   | 10,621    | 68,844 | 134,536                 |
|   |            | Female                 | 9   |              | 66069       | 25,199 | 31,298 |              | 6,632    | 4,832  | 5,407   | 3,034   | 7,805    | 5,109     | 32,819 | 64,117                  |
| Number of   |            | Male                   | ro  |              | 6,588       | 27,806 | 34,394 |              | 8,199    | 5,218  | 5,852   | 3,473   | 7,771    | 5,512     | 36,025 | 70,419                  |
| n per   | pulation   | Average pol            | 4   |              | 321         | 599    | 526    |              | 270      | 362    | 286     | 199     | 221      | 233       | 258    | 322                     |
| res :   | lim ərs    | Area in squ            | က   |              | 1,978       | 5,478  | 7,456  |              | 3,969    | 3,840  | 2,804   | 3,898   | 5,128    | 4,156     | 23,795 | 31,251                  |
|   |            |                        |     | LLEY         | :           |        | :      | LLEY         | :        | - :    | :       | :       | :        | :         | :      | pro-                    |
|   |            | Districts              | 64  | SURMA VALLEY | Cachar      | Sylhet | Total  | ASSAM VALLEY | Goalpara | Kamrup | Darrang | Nowgong | Sibsagar | Lakhimpur | Total  | Total for the province. |
|   | ;          | 70                     |     |              | 7           | 7      | ~      |              | က        | 4      | ب<br>ب  | 9       | 2        | <b>©</b>  |        | -3                      |

during the year 1945  $\frac{238}{12,449}$ 53,005 762 52,243 Total deaths 14,831 12,687 14,431 750 10,050 11,259  $\frac{212}{11,047}$ 249 6,258 188 15,388 15,576 3,136 registered 6,507 337 10,284 10.75 13.45 10,621 1,31,400 134,536 13.37 1,100 1,115 42 1,116 59 891 50 4,413 1,158 December 16 553 35 1,287 950 569 -11 1,369 1,380 1,322 14.19 38 1,184 1,222 10.74 11,863 14.29 12,129 15 November 1,090 43 69 571 51 32 1,128 4,668 1,330 1,008 1,025 684 1,565 1,579 1,160 14.73 640 21 663 10.72 11,929 14.85 12,186 1,164 24 1,140 50 4,087 24,041 27 591 1,065  $\frac{35}{504}$ 1,097 1,112 11 858 11,049 539 618  $\frac{17}{1,528}$ 1,545 869 8.20 October 10,846 13.07 12.93 13 1,100 September 74 23. 38 1,216 17 1,425 1,443 34 849 883 12.92 938 57 3,535 785 733 10,408 3,592 21 764 282 12.96 11.77 10,690 12 14 31 543 9,758 33 1,122 74 15 1,468 1,483 22 899 20 980 1,000 3,130 3,168 1,155 895 10,005 9.97 247 921 August 60 865 18 1,515  $^{19}_{1,275}$ 46 788 17 935 952 36 4,139 22 1,493 1,294 35 10.22 12,015 14.06 468 1,852 11,762 14.17 925 834 253 July 10 13 1,109 1,122 1,310 3,832 3,879 37 1,231 1,268 63 1,176 1,239 15 492 507 7 1,635 1,642 21 722 743 14.17 1,324 217 9.05 11,507 14.32 11,724 June 6 1,008 61 796 1,022  $\frac{18}{1,172}$ 41  $^{26}_{1,071}$ 67 4,184 1,260 1,287 857 21 581 602 1,190 275 10,842 13.06 1,097 4,251 13.01 811 May 61 669 730 6 944 21 369 975 15 754 8.76 19 1,138 390 769 210 55 3,986 27 1,111 969,6 12.07 4,041 950 907 981 906,6 11.97 April 5 72 12 698 16 14 1,025 28 1,315 710 1,039 17 54 4,145 4,199 1,343 21 330 351 9,525 9,759 822 528 767 11.41 March \$ 54 18 14  $\begin{array}{c} 14 \\ 482 \end{array}$ 24 574 5,688 5,744 28 1,124 1,152 465 10.32 13.86 23 885 906 10,390 496 598 231 13.76 February 10,621 2 39-23 51 1,153 1,204 1,121 1,189 29 597 19 709 18.61 15.60 31 1,360 626 12,874 15.31 13,335 201 6,537 461 January 4 60,946 1,327,816 71,264 3,215,317 36,655 1,034,627 30,274 14,844 787,810 14,081 760,944 40,217 802,645 23,306 610,793 634,099 1,071,282 1,388,762 775,025 1,136,019 968,621 291,587 9,771,447 10,063,034 286,581 Population Ratio per mille for the province Ratio per mille for rural circles Total for the province ... Total for the rural circles Urban Rural ... Urban Rural ... Urban Rural .. Urban Rural ... Ratio per mille for towns ... Urban Rural .. Urban Rural ... Total.. Urban Rural. Total Total Total Urban Rural Total Total Total Total Total for the towns Districts Lakhimpur Nowgong Goalpara Sibsagar Sylhet.. Kamrup Cachar So.

STATEMENT No. III - Deaths registered in the districts of Assam during each month of the year 1945

STATEMENT No. IV.

2,940 7,723 4,979 62,762 4,487 5,333 6,473 5,992 24,636 Total of all ages Female 68,638 5,305 6,457 5,715 3,318 7,665 4,813 27,407 7,958 plaM 7,904 3,719 7,205 Female 60 and upwards 9,832 1,425 4,611 Male 4,112 1,657 : 50 and under 60 Female 5,749 Male 4,874 1,907 40 and under 50 years Female 2,508 ,276 : Male 2,796 6,862 30 and under 40 years : Female 6,875 2,862 : Male 8,142 3,418 20 and under 30 years .: Female 5,797 3,287 : Male 1,320 3,928 15 and under 20 years : Female 1,159 3,543 olaM 2,999 10 and under 15 years Female 3,633 1,267 : Male 4,976 1,699 Sand under 10 years Female 5,575 1,872 Male. : 1,208 3,333 090'6 I year and under 5 years Female 1,333 9,810 3,629 1,030 : Male 8,892 2,140 2,820 131-68 1,250 1,921 1,639 21,451 1,946 Total 123.96 4,039 1,346 9,908 1,017 Total Female 1,123 11,546 138.99 4,853 1,474 1,120 Male 1,520 4,873 Over 6 months and not exceed-ing 12 months : Total 2,327 Female : 2,546 olaM Over I month and not exceeding 6 months 1,077 \$08 7,282 Total 1,288 3,436 Lemale = 1,460 3,846 Male .624 ,296 Total 1,997 Total Female 5,154 2,149 1,993 Over one week Not exceeding I month 2,627 1,131 Total Male 1,065 Total for the rural 2,771 2,383 circles. Over one week 1,562 Ξ Under one week Ratio per mille.. A,-RURAL CIRCLES Lakhimpur Cachar .. Siltagar

No. IV. - Deaths registered according to age in the districts of Assam (rural circles) and towns of Assam during the year 1945

STATEMENT

| B.—TOWNS                |          |             |           |   |           |            |              |             | -                                       |   |             |          | _      |           |          | -              |         |           |            |       |       |          |                  |            |            |           |             |          |            |          |          |       |      |          |
|-------------------------|----------|-------------|-----------|---|-----------|------------|--------------|-------------|---|---|-------------|----------|--------|-----------|----------|----------------|---------|-----------|------------|-------|-------|----------|------------------|------------|------------|-----------|-------------|----------|------------|----------|----------|-------|------|----------|
|                         |          | •           | •         |   |           |            |              |             | -                                       | ;                                       |             |          |        |           |          |                |         |           |            |       | •     | •        |                  |            | b<br>F     |           |             |          |            |          |          | 9     | 10   |          |
|                         | <b>→</b> | N           | m         | •                                       | -         | ·0         | <b>∞</b>     | 61          | Ø1                                      |   | :           | :        |        | 5 14      | • I      | 6              |         | 2         | χ<br>2     | n     | -     | 19       | -                | ×1         | e <b>T</b> |           | -<br>-<br>- | -        | _          |          |          | , :   |      |          |
| 2 Hailakandi            | -        | :           | <b>PM</b> | 61                                      | :         | 5          | m            | *           |   | *                                       | :           |          |        |           |          |                | R       | :         | :          | :     | :     | က        | :                | พ          | က          | 10        | -           |          | <b>-</b> 1 | <b>-</b> | . '      | S.    | in . | 2 23     |
| 3 Haffong               | ;        | 7           |           | :                                       | :         |            |              |             | :                                       | -                                       | •           | 1 1      |        | e4        |          | 3 1            |         | :         | :          | :     | :     | :        | :                | •          | ;          | -         | :           | :        | ٠          | :        | ~~       |       | :    | :        |
| 4 Sylhet                | 13       | 7           | 17        | ======================================= | က         | <b>1</b> 2 | 31           | 13          | 10                                      | <b>64</b>                               | *           | ∞<br>••• | 34     | <b>5</b>  |          | 62 10          | 0 18    | 9         | 9 10       | w     | ∞     | 7        | 2                | 6          | 17         | 13        | 15 1        | 01       | 01         | 9        | 26       |       | 29   | 29 130   |
| 8 Maulvibazar           | :        | :           | :         | :                                       | 1         |            | -            |             |   |   | :           | :        |        |           |          | m              | (a)     | رم<br>درو | *0         | :     | 7     | 1        | 1                | •          | 1          | <b>6</b>  | -           | 5        | 9          | N.       | 77       |       | -    | 1 31     |
| 6 Karimganj             | 4        | :           | *         | S                                       | 1         | 9          | 10           | •           | ·<br>·                                  | :                                       | <del></del> | 1 1      |        | *         | 7 I      | 11             | •       | :         | :          | m     | :     | 7        | :                | 7          | 10         | 9         | 10          | 9        | 7          | •        | FD.      |       | 10   | 10 44    |
| 7 Habiganj              | 10       | m           | 13        | 9 0                                     | -         | -          | 20           | ಣ           | 100                                     | <b>∞</b>                                | 61          | 3        | 18     | 8 13      |          | 31   5         | 9 12    |           | 3<br>4     | -     | -     | 1        | 53               | 9          | 61         | 2         | •           | 8        | 00         | rv.      | 17       |       | 11   | 14 78    |
| 8 Sunamganj             | <b>x</b> |             | 6         | 73                                      | *         | 9          | 15           | ın.         | 9                                       | ======================================= | 1           | 2        | 15     | 5 17      |          | 32 14          | 4 21    |           | 3          | 7     | m     | *        | 10               | 21         | <b>∞</b>   | 6         | 11          | 15 5     | φ          | *        | 16       |       | 13   |          |
| 9 Srimangal             | -        | :           | 7         | :                                       | :         | ,          | -            |             |   |   | 1           | 1        | 6      |           | 61       | •              | :       |           | 1 1        | -     | 7     | -        | :                | -          | <b>6</b>   | -         |             | :        |            | :        | -        |       | :    | 13       |
| Assam Valley            |          |             |           |   |           |            |              |             | -                                       |   |             | •        |        |           |          |                |         |           |            |       |       |          |                  |            |            |           |             |          |            |          |          |       |      |          |
| I Dhubri                | 67       | m           | 9         | 7                                       | :         | -          | 7            | *           |   | 00                                      | 0           | 7 16     | 5 23   |           | 8        | 31 12          |         | 6         | 6 . 7      | *     | *     | 6        | 61               | 252        | 6          | 16        | 8 17        | 21       | 12         | (C)      | 4        |       | 13   | 13 131   |
| 2 Goalpara              | :        | :           | :         | :                                       | •         |            | :            | 6           | 0                                       | 18                                      | 12          | 9 21     | 1 21   |           | 18 3     | 39 12          |         | 6         | 6 2        | 00    | 9     | w        | 2                | က          | m          | 61        |             | :        | :          |          | 12       |       | -    | 7 72     |
| 3 Gauripur              | **       | :           | က         | -                                       | 61        | က          | 9            | 61          | 4                                       | 9                                       | ıs.         | 8        | 3 10   |           | 10 2     | 20 10          | •       | 2         | 7          | :     | 1     | က        | *                | 46         | 67         | 10        | :           | 673      | 77         | :        | :        |       | 43   | 38       |
| Gauhati                 | מע       | 4           | <u>.</u>  | 7                                       | 8         | 10         | 19           | 10          | 1-                                      | 17                                      | 6           | 4 13     | 3 28   | 8 21      |          | 8 65           | 8 16    | 9 61      | 9 10       | 9     | 2     | ,<br>00  | 13               | 36         | 29         | 26        | 10 26       | 9        | 15         | <b>∞</b> | <b>±</b> |       | 13   | 3 186    |
|                         | 61       | •           | 1/3       | :                                       | ~         | m          | ∞            | 6           | 9                                       | 15                                      |             | 1/3      | 5 14   | -         | 4        | 28   16        | 6 34    | 4         | 7          | 15    | 7     | က        | :                | 15         | 9          | 12        | 1 2         | 13 5     | **         | *        | . 36     | 77    | ~    | 7 153    |
|                         | 61       | -           | က         | -                                       | 64        | m          | 9            | 1/0         | -                                       | · •                                     | ÷           | 8        | 7 13   |           | 9        | 61             | -       | * co      | 20         | -     | -     | :        | 7                | 61         | **         | •         | 1           | en       | C4         | 61       | :        | :     |      | 30       |
| 7 Nalbari               | -        | :           |           | :                                       | :         |            | -            | - 61        | 77                                      | •                                       | •           | :        |        | m         |          | 7              | ***     | 1         | - 2        | 12    | t,    | :        | က                | <b>6</b> 0 | 64         | П         | -           | 3        | 61         | ~        | :        |       |      | 36       |
| 8 Tezpur                | 6        | -           | 10        | *                                       | :         | *          | 14           | •           | r2                                      | 11                                      | . 61        | . 64     | 18     | 8 111     |          | 29             |         | 410       | <br>       | 6     | א     | NO.      | <b>6</b> 0       | 25         | =          | 17        | رد<br>ارو   | 20 4     | 17         | 61       | **       |       | 17   | 132      |
| dai                     | -        | •           | -         | :                                       | -         | 1          | 64           | •           |   | -                                       |             |          |        | , 61      | 67       | - <del>4</del> | :       | :         | :          | :     | :     | 7        | :                | •          | :          | :         | •           | 1 1      | -          | :,,      | :        | :     |      | <b></b>  |
| Nowgong                 | 6        | 64          | =         | •••                                     | •         | 12         | 23           | 17          | ======================================= | 80                                      | m'          | 8        | 5 31   | 1 25      |          | 99             | 9 14    | €         | <b>80</b>  | v     | က     | 13       | N)               | 12         | 10         | 24        | 10 2(       | 20       | 16         | 9        | 16       | _     | 13   | 3 135    |
|                         | 6.4      | :           | 7         | :                                       | 1         | -          | က            | m           | -                                       | m                                       | 1           |          |        | 3.0       | 61       | 7              | وم      | N)        | 49<br>60   | :     | -     | 64       | 8                | r)         | m          | 9         | *           | :        | 9          | *        | 9        |       | m    | 3 42     |
| 12 Sibsagar             | -        | -           | "         | :                                       | :         |            |              |             |   | 1                                       |             |          |        | en .      |          | •              |         | 40        | :          | :     | :     | -        | :                | C.S        | 61         | 1         | 61          | 9        | -          |          | 9        |       | 10   | 5 24     |
|                         | 7        | :           |           | -                                       | :         | -          | 63           | က           | 1                                       | *                                       | . 1         | -        |        | 10        | m        | <u>е</u>       |         | -         | 1 2        | 61    | :     | :        | -                | 1          | :          | •         | 61          | 23       | -          | 67       | e0       |       | -    | 1 19     |
| 16 Golaghat             | :        | 7           |           | -                                       |           | 64         | ,<br>,       |             |   | :                                       |             | -        |        | 61        | 64       | 4              | 61      | -         |            | 1     | :     | 10       | :                | 61         | •          | က         | :<br>m      | •        | 7          | -        | 40       | ₹     |      | 1 21     |
| _0                      | **       | <b>6</b> 2. | <b>∞</b>  | 00                                      | 60        | 111        | 19           | 6           | 9                                       | 15                                      | 9           | 6 12     | 2 23   | 3 23      |          | 46             | ¥9      | e5        |            | 9     | :     | 10       | 2                | 23         | 20         | 23        | 7 19        | 6]       | 7          | *        | 6        | 9,    |      | 129      |
| 16 Tinsukia             | s.o.     | 7           | -         | :                                       | -         | -          | co           | · ·         |   | က                                       | *           | 9        | 14     |           | 3 I      | 17             | :       | _         | <b>4</b> 0 | -     | *     | 1        | 61               |            | 7          | 4         | -           | 23       | נעו        | 7        | 9        | 64    |      | 41       |
| 17 Doom Dooma           | 7        | 61          | 60        | -                                       | 60        | *          | 7            |             | <b>6</b>                                | *                                       | :           |          |        | <b>10</b> | 7        | 12             |         | 2 1       | 1          | 63    | -     | -        | :                |            | 61         | •         | 1           | 6        | -          | :        | က        | :     |      |          |
| 18 North Lakhimpur      | :        |             |           | :                                       | 7         | 73         | <sub>.</sub> | :           |   | :                                       |             |          | 61     | 61        | က        | 3              | رم<br>د | :         | . :        | 61    | :     | :        | :                | 2          | 2          | 7         | C1          | 1        | -          | -        | :        | 24    |      | 13       |
| Total for the towns.    | 888      | 35          | 123       | 63                                      | 37 1      | 100        | 223 1        | 211         | 96                                      | 207                                     | 69          | 58 127   | 309    | 9 248     | 8 - 557  | 154            | 4 193   | 3 96      | \$6 9      | 96    | 57.3  | 75       | 18               | 222        | 163        | 220 1     | 116 212     | 12 81    | 153        | 72       | 247      | 257   | 1    | 1,781    |
| Ratio per mille         | :        | :           | :         | :                                       | :         | :          |              | :           |   | :                                       | :           | :        | 101-98 | 8 94.58   | 98-53    | ;<br>m         | :       | •         | •          | :     | :     | . :      | :                | :          | :          | :         | •           | :        | :          |          | :        | :     |      | :        |
| Total for the province. | 2,859    | 1 8 1 9 1   | 5,277 2   | 2,212                                   | 2,030 4,2 | 4,242 9,8  | 9,519 3,9    | 3,963 3,526 | 1                                       | 7,489 2,6                               | 2,615 2,385 | 5,000    | 11,855 | 5 10,153  | 3 22,008 | 88 9,964       | 9,253   | 5,670     | 0 5,076    | 3,727 | 3,052 | 3,620 4  | <b>4</b> ,006 6, | 8 610,9    | 305        | 7,095 6,9 | 6,978 6,487 | 87 4,935 | 4,902      | 4,184    | 10,079   | 8,161 | 1    | 70,419   |
| Ratio per mille         | 1 :      | :           |           | :                                       | :         | 1 :        | <u> </u>     | 1:          |   | :                                       | :           | :        | 137.68 | 8 123.03  | 130.51   | 1 16.15        | 15.38   | 8 6.62    | 6.45       | 5.70  | 6-34  | 89<br>64 | 9.52             | 6.52       | 88.8       | 9.66 10.  | 10.65 14.23 | 23 13·01 | 1 17.14    | 18-40    | 51.10    | 51.65 | . 62 | 65 13.20 |
|                         |          | -           |           |   |           |            | _            | -           |   | 45                                      | -           | -        | _      |           |          | _              | -       | -         | -          | _     |       | -        | -                |            | -          | -         | -           | -        |            |          |          |       | 1    |          |

The age groups have been worked out from the percentages of age distribution amongst the T sample of the population of the plain districts during 1941 census.

STATEMENT No. IV(a)—Showing mortality under one year by classes in the district of Assam for the year 1945

|               | ths                       | ,      |             | ٦        |        |         |         |          |  |        |
|---------------|---------------------------|--------|-------------|----------|--------|---------|---------|----------|--|--------|
| Other classes | Ratio per<br>1,000 births | •      | :           | •        | :      | :       | :       | :        |  | :      |
| Othe          | Number                    | 4      | 10          | 24       | 25     | 86      | 85      | 29       | 287  | 009    |
| Buddhists     | Ratio per<br>1,000 births | •      | :           | :        | :      | :       | :       | :        | •  | •      |
| Bude          | Number                    |        | •           | •        | :      | •       | :       | က        | -  | 4      |
| Christians    | Ratio per<br>1,000 births | :      | :           | :        | :      | :       | :       | :        | errolling (pr opin) (Copendati errollind) <u>parameter</u> e-ca epo complete.  ♦ ♦ ♦ | •      |
| Chri          | Number                    | :      | 32          | 38       | :      | 68      | :       | 13       | 93   | . 265  |
| Muslims       | Ratio per<br>1,000 births | •      |             | :        | :      | :       | :       | •        | •  | :      |
| 4             | Number                    | 955    | 5,171       | 1,327    | 138    | 183     | -150    | 21       | 93   | 8,038  |
| Hindus        | Ratio per<br>1,000 births | :      |             | :        | :      | :       | :       | :        | :  | • •    |
| H             | Number                    | 1,016  | 3,822       | 1,521    | 1,190  | 1,584   | 614     | 2,059    | 1,295  | 13,101 |
|               | ,                         | •      | :           | • ,      | •      |         | •       | :        | :  | •      |
|               |                           |        | :           | :        | :      | :       | •       | ÷        | **   | *      |
|               | Districts                 | :      | *<br>*<br>9 | •        | :      | :       | :       | :        | :  | Total  |
|               |                           | Cachar | Sylhet      | Goalpara | Kamrup | Darrang | Nowgong | Sibsagar | Lakhimpur  |        |

STATEMENT No. V.—Deaths registered according to class in the districts of Assam during the year 1945

|              |                      |             |              | N      | Number of |        | deaths registered                 | relea                             |            |                     |        |                |           |       | 1             |       |       | •      | 7     | atio of | deaths  | per 1,00 | Ratio of deaths per 1,000 of population | oulation   |       |           |  | 1         |               |           |
|--------------|----------------------|-------------|--------------|--------|-----------|--------|-----------------------------------|-----------------------------------|------------|---------------------|--------|----------------|-----------|-------|---------------|-------|-------|--------|-------|---------|---------|----------|---|------------|-------|-----------|--|-----------|---------------|-----------|
|              | 田                    | Hindus      | -            | 4      | Muslims   |        | •                                 | Chr                               | Christians | 00                  |        | Bude           | Buddhists | ,     | Other classes | asses |       | Hindus | 18    |         | Muslims | CO       | ਹੈ                                      | Christians |       | Buddhists | hists  |           | Other classes | asses     |
| Districts    |                      |             |              |        |           |        | Europeans<br>and Anglo<br>Indians | Europeans<br>ind Anglo<br>Indians | F 5        | Total of Christians | F. Dis |                |           | 1     |               |       | 1     |        |       |         |         |          |   |            | 1     |           | Access 100 to 10 |           |               |           |
|              | Male                 | Female      | Total        | Male   | Female    | Total  | Male                              | Female Total                      | Male       | Female              | Total  | Male<br>Female | Total     | Male  | Female        | Total | Male  | Female | Total | Male    | Female  | Total    | Male                                    | Female     | Total | Male      | Female<br>Total  | Male      | Female        | <br>IstoT |
| 61.1         | က                    | 4           | r            | 9      | 2.        | ∞      | 9:1                               | 10 11                             | 12         | 13                  | 14     | 15             | 16 17     | 18    | 19            | 20    | 21    | 22     | 133   | 24      | 25      | 26       | 27                                      | 28         | 29    | 30        | 31 32  | 33        | 34            | 35        |
| Surma Valley |                      |             |              |        |           |        |                                   |                                   |            |                     |        |                |           |       |               |       |       | í      |       |         |         |          |   | •          |       | ,         | -  | -         | }             | -         |
| Cachar       | 4,132                | 3,782       | 7,914        | 2,406  | 2,285     | 4,691  | :                                 | :                                 | •          | 6.                  | 15     |                | :         | 44    | 23            | 19    | 32.11 | 33.77  | 32.88 | 18.47   | 19.36   | 18.89    | :                                       | :          | :     | :         | · ·  |           | .44 .25       | -35       |
| Sylhet       | 10,745               | 9,736       | 20,481       | 17,020 | 15,426    | 32,446 | :                                 | :                                 | · ·        | , 2                 | 7      | - :            |           | 36    | 34            | 20    | 16.75 | 16.68  | 16.72 | 16.22   | 15.94   | 16.10    | :                                       | :          | *     |           |  | 91        | 1 .92         | 2 - 91    |
| Total        | 14,877,13,518 28,395 | 13,518      | 28,395       | 19,426 | 17,711    | 37,137 | :                                 |                                   |            | =                   | 22     |                | 1 1       | 80    | 57            | 137   | 19.31 | 19.43  | 19.37 | 16.47   | 16.31   | 16.39    | :                                       | •          | :     |           |  | .57       | 7 -44         | I.C.      |
| Assam Valley |                      |             |              |        |           |        |                                   |                                   | 1          |                     |        |                |           |       |               | ,     |       |        |       |         |         |          |   |            |       |           |  |           |               |           |
| Goalpara     | 3,753                | 3,174       | 6,927        | 3,288  | 2,457     | 5,745  | -                                 | :                                 | 154        | 197                 | 351    | 12 (           | 6 18      | ≥ 992 | 798           | 1,790 | 21.05 | 21.43  | 21.22 | 12.42   | 10.45   | 11.49    | :                                       | :          |       |           | :  | 7.53      | 3 6.52        | 7.04      |
| Kamrup       | 4,106                | 3,973       | 8,079        | 777    | 603       | 1,380  | :                                 | •                                 | 30         | 29                  | 59     | -              |           | 304   | 227           | 531   | 10.29 | 11.57  | 10.88 | 3.72    | 3.29    | 3.52     |   | :          | •     |           | :  | 2.78      | 8 2.22        | 2.51      |
| Darrang      | 4,576                | 4,371 8,947 | 8,947        | 567    | 467       | L,034  | :                                 | :                                 | 181        | 17.1                | 335    | - 2            |           | 526   | 394           | 920   | 22.65 | 25.92  | 23.78 | 8.10    | 7.92    | 8.07     | •                                       | :          | :     | ·<br>:    | ,:<br>   | 3.64      | 4 3.49        | 3.31      |
| Nowgong      | 2,220                | 1,947       | 4,167        | 777    | 624       | 1,401  | :                                 | :                                 | 4.2        | 11                  | 53     | - <del>-</del> | •         | 434   | 452           | 886   | 13.32 | 13.84  | 13.55 | 3.42    | 5.15    | 5.26     | :                                       | :          | :     | :         |  | 4.71      | 1 5.22        | 4.96      |
| Silssagar    | 626'9                | 7,016       | 7,016 13,995 | 231    | 187       | 418    | :                                 | •                                 | :          | :                   | :      | 9   16         | 6   25    | 552   | 586           | 1,138 | 19.05 | 21.97  | 20.41 | 7.46    | 7-72    | 7.58     | :                                       | :          | :     | •         | :<br>  | 2.75      | 5 3.37        | 3.63      |
| Lakhimpur    | 4,857                | 4,520       | 9,377        | 156    | 111       | 267    | :                                 | ab. a                             | 1177       | 154                 | 331    | 13             | 9 22      | 303   | 321           | 624   | 16.62 | 18.69  | 17.50 | . 5.21  | 6.32    | 5.61     | :                                       |            | :     | :         | :  | 1.52      | 2 1.82        | 1.11      |
| Total        | 26,491 25,001 51,492 | 25,001      | 51,492       | 5,796  | 4,449     | 10,245 |                                   | :                                 | 584        | 565 1               | ,149   | 37             | 32 69     | 3,111 | 1 2,778       | 5,889 | 16.51 | 18.35  | 17.36 | 7-75    | 6.93    | 7 37     | :                                       | :          | :     |           |  | 3.58      | 8 3.50        | 3.54      |
| province.    | 41,368 38,519 79,887 | 38,519      | 79,887       | 25,222 | 22,160 47 | 47,382 | :                                 | :                                 | 595        | 576 1               | 1,171  | 37 3           | 33 70     | 3,191 | 1 2,835       | 6,026 | 17.42 | 18.72  | 18.02 | 13.10   | 12.82   | 12.96    | 26.48                                   | 29.16      | 21.74 | 8 1.9.1   | 8.98   | 8.17 3.16 | 3.10          | 3.12      |

21.

20.45

20.24

8.70

18.16

17.97

12.04

13.61

five years

Mean of previous

·oN

32

all

12.14

13.96

16.24

13.95 14.02 13 45 20.38 16.25 8.22 13.91 11.22Total for the year 31 of population 16. 2.56 6.49 3.36 2.29 1.64 1.71 52 3.2130 All other causes .14 .11 .12 90. .12 .05 .14 60 ·01 Injuries 29 1,000 Assam during the year 1945 per .45 .57 34 .34 .82 .25 80. .82 •34 .01 28 Respiratory diseases Ratio of deaths 1.73 0.4 22 .63 29. 1.07 1.41 87 .94 Dysentery and diarrhæa 27 10.26 8.35 8.89 13.27 5.29 5.69 10.92 10.37 16.2 26 Fevers Plague 25 60. 99. .08 .07 44 .19 72 .32 38 .23 Small-pox 24 the Province of .30 .18 . 19 .15 19. 54 .01 23 Cholera 12,449 131,400 9,300 802,99 52,243 11,047 6,258 64,692 22 Total 24,780 10,149 3,917 1,233 2,962 10,714 945 2,678 14,631 districts and towns of 1,801 All other causes 21 1,131 550 82 96 100 161 481 157 20 Total 19 91 17 Rabies 83 07 Wild animals 18 13 26 31 81 Injuries 30 17 18 the Snakes VI.- Deaths registered from different causes in 326 809 85 398 483 26 103 51 97 16 Wounds and acci-2 15 30 35 12 12 45 80 Female Suicide Deaths from 112 40 4.8 14 64 Male 3,317 1,996 1,321 358 633 503 Respiratory diseases 13 8,545 3,443 4,534 733 499 1,564 4,011 1,091 Dysentery and diarrhoea 86,903 39,678 13,726 47,225 33,005 7,845 5,287 Fevers 11 Plague 1,895 3,764 149 1,811 216 62 58 6 Small-pox 2,960 FEMENT No. 2,078 1,971 882 107 152 122  $\infty$ Cholera 23.75 19.17 15.90 17.53 14.60 16.61 10.80 12.07 17.19 16.68 Birth-rate 14,016 165 929 132 86,814 154 14,343 13,808 19,011 Total 76, 79,907 162,9 61, 988,9 29,543 7,612 6,758 09969 4,410 9,097 43,478 8,941 35,429 Births Female 5 83,072 8,842 32,113 39,736 5,402 43,336 7,148 4,772 7,623 9,914 7,258 Male 760,944 928,404 Total for districts excluding towns 9,771,447 3,826,110 1,034,627 1,327,816 787,801 610,793 2,215,317 1,105,745 5,945,337 Estimated Population DISTRICTS . EXCLUDING TOWNS Surma Valley : Assam Valley Districts and Total Lakhimpur Nowgong Goalpara Sibsagar towns Kamrup Darrang Cachar Total Sylhet 0

01

|       |              | 18·72     | 16.85        | 2.56      | 12.31           | 7.62          | 20.65       | 14.47      | 26.51       | 18.33       | 12.62  | <ul><li></li></ul>   | is l                 | 6.54                       |
|-------|--------------|-----------|--------------|-----------|-----------------|---------------|-------------|------------|-------------|-------------|--------|--|----------------------|----------------------------|
|       |              | 0.59 1    | 0.41         | 5.54      | 8-77            | 8.25          | 9.28 2      | 10.21      | 23.28 2     | 12.9        | 0.57   | 88<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60   | 0.75 1               | 3.37                       |
|       |              | 4.76      | 5.35 1       | 2.46      | 4.95            | 3.28          | 96.1        | 4.83 1     | 7.01 2      | 2.71        | 4.88 1 | 010. =   | 4.25                 | 2.60                       |
|       |              | .52       | :            | *         | 90.             | :             | 1.01        | .29        | •36         |             | .29    |  | .31                  | .12                        |
|       |              | 1.21      | :            | :         | 22-             | .15           | .34         | .36        | .24         | 1.01        | . 63   |  | 08.                  | .35                        |
|       |              | 1.65      | 2.25         | .62       | 1.03            | .47           | 1.14        | 1.31       | -95         | .34         | 1.17   |  | 1.17                 | 88                         |
| -     | ,            | 2.15      | 2.53         | 2.46      | 1.84            | 2.02          | 1.60        | 2.77       | 11.40       | 2.71        | 2.93   | 13.22<br>13.22<br>13.22<br>2.15<br>5.07<br>9.48<br>1.35<br>3.73<br>3.73<br>1.32<br>1.32<br>1.32<br>1.32<br>1.32<br>1.32<br>1.32<br>1.32<br>1.32<br>1.32<br>1.35<br>1.32<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.35<br>1.3 | 3.73                 | 8.74                       |
|       |              | :         | :            | :         | •               | :             | •           | :          | -:          | - !         | :      |  | :                    | •                          |
|       |              | .22       | :            | :         | :               | 2.18          | :           | •14        | .83         |             | .28    |  | .25                  | .38                        |
|       |              | .05       | .28          | :         | .12             | .15           | .23         | .51        | 2.49        |             | .39    | .13  | .24                  | -30                        |
|       |              | 192       | 37           | 6         | 272             | 53            | 81          | 140        | 196         | 20          | 1,000  | 199<br>129<br>129<br>72<br>323<br>309<br>63<br>55<br>204<br>8<br>249<br>69<br>43<br>43<br>40<br>-210<br>62<br>40<br>25   | 3,136                | 134,536                    |
|       |              | 98        | 19           | 4         | 153             | 21            | 43          | 99         | 59          | 8           | 459    | 51<br>18<br>152<br>148<br>148<br>148<br>88<br>88<br>28<br>28<br>28<br>3<br>3<br>4<br>4<br>4<br>4<br>4<br>4<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7   | 1,238                | 26,018                     |
|       |              | 10        | :            | :         | 23              | :             | 6           | 4          | С           | :           | 28     | 12<br>14<br>15<br>15<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | 06                   | 1,221                      |
|       |              | 7         | :            | :         | :               | :             | _           | :          | •           | :           | 2      | :::::::::::::::::::::::::::::::::::::::  | 2                    | 19                         |
|       |              | •         | :            | :         | :               | :             | :           | •          | •           |             | :      |  | •                    | 83                         |
|       |              | :         | :            | :         | :               | :             | :           | :          | :           | ;           | :      |  | :                    | 30                         |
|       |              | 6         | :            | :         | 2               | :             | 00          | 4          | 7           |             | 25     | 12<br>13<br>13<br>13<br>13<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | 85                   | 894                        |
|       |              | :         | :            | :         | :               | :             | . ;         | :          | :           | :           | :      | :::::::::::::::::::::::::::::::::::::::  | 2                    | 82                         |
|       |              | :         | :            | :         | :               | :             | :           | :          |             | :           | 1      | :  | 1                    | 113                        |
|       |              | 22        | :            | •         | 24              | _             | . m         | 5          | 2           | က           | 09     | 10<br>22<br>22<br>15<br>4<br>32<br>32<br>34<br>35<br>36<br>37<br>37<br>38<br>39<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30<br>30  | 234                  | 3,551                      |
|       |              | 30        | œ            | p=4       | 32              | က             | 01          | 18         | Φ           | -           | 111    | 23<br>23<br>24<br>24<br>25<br>26<br>27<br>28<br>28<br>29<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20   | 341                  | 8,886                      |
|       |              | 39        | 6            | 4         | 57              | 13            | 14          | 38         | 96          | ω           | 278    | 999<br>1111<br>104<br>104<br>104<br>104<br>27<br>24<br>27<br>29<br>29<br>29<br>18<br>118   | 1,089                | 87,992                     |
|       |              | -:-       | -:-          | :         | _:              | :             | :           | :          | :           |             |        |  | :                    | :                          |
|       |              | 4         | :            | :         | :               | 14            | :           | 2          | 7           | :           | 27     | 6  | 74                   | 3,838                      |
|       |              |           | <b>~</b>     | <br>:     | <del>√j</del> 1 | 1             | 2           | 2          | 21          | :           | 37     | 333  | 02                   | 30,30                      |
|       |              | 15.88     | 66.61        | 3.69      | 22.27           | 14.17         | 13.74       | 15.02      | 34.56       | 14.57       | 19.10  | 15.44<br>33.01<br>12.21.17<br>14.52<br>29.75<br>30.82<br>16.88<br>23.37<br>17.64<br>19.31<br>19.31<br>14.57<br>14.93<br>14.93  | 19.38                | 16.76                      |
| -     |              | 288       | 71           | 9         | 169             | 91            | 120         | 206        | 291         | 43          | 1,807  | 346<br>277<br>130<br>479<br>610<br>117<br>62<br>294<br>40<br>454<br>171<br>171<br>366<br>1123<br>52<br>46  | 5,653                | 168,632                    |
|       |              | 147       | 37           | 7         | 319             | 20            | 46          | 38         | 139         | 20          | 843    | 136<br>132<br>71<br>216<br>283<br>51<br>27<br>133<br>14<br>217<br>74<br>74<br>74<br>50<br>39<br>52<br>190<br>49<br>60<br>20<br>20<br>1,774   | 2,622                | 82,529                     |
|       | •            | 141       | 3.4          | 4         | 372             | 41            | 74          | 118        | 152         | 23          | 959    | 210<br>145<br>59<br>263<br>327<br>66<br>35<br>161<br>26<br>237<br>97<br>46<br>65<br>176<br>176<br>176<br>176<br>176<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27<br>27  | 3,031                | 86,103                     |
|       |              | 18,131    | 3,552        | 1,623     | 31,027          | 6,422         | 8,732       | 13,711     | 8,420       | 2,952       | 94,540 | 22,399<br>8,391<br>5,865<br>32,978<br>20,499<br>3,796<br>3,676<br>12,577<br>2,267<br>14,081<br>13,103<br>7,945<br>3,418<br>5,808<br>25,123<br>9,716<br>2,298<br>3,080  | 291,587              | 10,063,034                 |
| TOWNS | Surma Valley | 1 Silchar | 2 Hailakandi | 3 Haflong | 4 Sylhet        | 5 Maulvibazar | 6 Karinganj | 7 Habiganj | 8 Sunamganj | 9 Srimangal | Total  | Assam Valley Dhubri Coalpara Gauripur Gauripur Gauhati Ha Barpeta Salasbari Malbari Mangaldai Nowgong Orhat Sibsagar Sibsagar Zi Nazira Golaghat Zi Coom Dooma Zi Doom Dooma Zi Doom Dooma Zi North Lakhim- Pur. Total   | Total for the towns. | Total for the 10 province. |

Ratio 16 Death tory diseases respira-Satio | 15 10 63 S Death ing Ratio Death Palmo-nary Tubercu-losis Ratio 13 Desth 2 3 **C1** Pneumo-Ratio 12 Death 11 1 17 Diar-rhoea Ratio :  $\Box$ 9 12 15 Death Dysen-tery Ratio 19. 20 Desth 12 Ξ 38 Other fevers Ratio 6 19 15 0 ന 92 20 Death 31 12 Ratio Black water fever 00 Death Kala azar Influenza : Ratio Death : Ratio 9 n 2  $\infty$ 3 Death Relapsing fever Oits A LO. Death Meales Ratio C.1 12 4 Death Enteric fever  ${\bf Oiis}$ ಣ 13 2 0.8 Death Typhus fever • •: Ratio 0 Death Cerebro-spinal fever Ratio Death Towns Maulvibazar Hailakandi Sunamganj Karimganj Habiganj Srimangal Goalpara Gouripur Haflong Dhubri Gauhati Silchar Sylhet

SUPPLEMENTARY (OPTIONAL) STAFEMENT VI(a) FOR THE YEAR 1945

|                        | :                                     | :              | :                     |                             | •       | :  |          | :      | :        |            | •                    | :          | :                                  | and the second second             |  |     |
|------------------------|---------------------------------------|----------------|-----------------------|-----------------------------|---------|--|----------|--------|----------|------------|----------------------|------------|------------------------------------|-----------------------------------|--|-----|
| -                      |                                       | =              |                       | :                           | :       | :  |          | :      | :        | •          | :                    | :          | •                                  | -                                 |  |     |
| :                      |                                       | :              | •                     | :                           |         | :  | _:       | •      | _ :      | :          | :                    | -          | :                                  |                                   |  | _ j |
| •                      |                                       | :              | 12                    |                             |         | က  | :        |        | :        | 13         |                      | •          | :                                  |                                   |  |     |
|                        | _ :-                                  | •              |                       |                             | :       | :  |          | :<br>  | :        | :          | :                    | 4          | •                                  | ~                                 |  |     |
|                        | :                                     |                | :                     |                             |         | •  |          |        | :        | •          | :                    | •          | :                                  |                                   |  | _   |
| ,                      | :                                     |                | :                     | *                           | :       | •  |          | •      | :        | :          | :                    |            | :                                  |                                   |  |     |
|                        |                                       | :              | 6                     |                             |         | _ :1   |          |        |          | 12         | :                    | C1         | :                                  |                                   |  | _   |
| 1000                   |                                       | :              |                       | dan produced and the second | ;       | :  |          | •      | :        | :          | •                    |            | :                                  | ***                               |  | _   |
| 13                     | ~~~                                   |                |                       | <u> </u>                    |         |  |          |        |          | 14         | -                    |            | :                                  |                                   |  | -   |
| •                      | 6                                     | m              | •                     |                             |         | · ·  |          |        |          | ∞          | 61                   | ્<br>-     |                                    |                                   |  |     |
|                        |                                       |                |                       | •                           |         | •  |          |        |          |            |                      |            |                                    |                                   |  | _   |
|                        |                                       | •              |                       |                             |         |  |          |        |          |            |                      |            |                                    |                                   |  | - ( |
| _<br>ಲಾ<br><u>ಸ</u> ್ಕ | . 12                                  |                | . 17                  |                             | . 30    | : -  |          |        |          |            |                      |            |                                    |                                   |  |     |
| :                      |                                       |                | •                     | •                           |         | and a physical physical states and the state of the state |          |        |          | - 0        | 10                   |            |                                    | = / =                             |  |     |
| . 70                   | . 28                                  | :              | . 16                  | •                           | 09      | 61<br>   | 6        | . 25   | - 18     | - 20       | . 15                 |            | 6                                  |                                   | *  |     |
| -                      | -                                     |                |                       | · ·                         |         | -  | -        | -      |          |            | -                    |            |                                    | •                                 |  |     |
| :                      | <u> </u>                              |                | :                     |                             |         |  |          | -      |          |            |                      | -          |                                    |                                   |  |     |
| :                      | <u>:</u>                              | · ·            | :                     | •                           | -       |  | •        |        |          |            | •                    |            |                                    |                                   |  |     |
| -                      |                                       |                | :                     |                             |         |  | ~        |        |          | •          |                      | ₩<br>(m    |                                    |                                   |  |     |
| :                      | :                                     |                | <del></del>           |                             | :       | :  |          |        |          |            |                      |            |                                    | Addukt water columns              |  | -   |
|                        |                                       |                | <del></del>           |                             |         |  |          |        |          |            |                      |            |                                    | .= '.                             | mbridge gan in a sampe   | -   |
| Barrier 100 - 100      |                                       | •              |                       |                             | •       |  |          |        | :        | :          |                      |            | •                                  | u uma                             |  | -   |
|                        | • • • • • • • • • • • • • • • • • • • |                |                       |                             |         |  |          |        |          |            |                      |            |                                    |                                   |  |     |
|                        | V                                     |                |                       |                             | :       | •  |          |        |          |            |                      |            | Authorite Streethorneethood severe |                                   | and the second s |     |
| page 10                |                                       |                | alone An An O and the |                             |         | :  | -4       |        |          | I make the |                      |            |                                    | man na radio - Mar aprino - colle |  |     |
| :                      |                                       |                | . 6                   |                             | -       | <u>:</u>   |          | -      |          |            |                      | :          |                                    | -                                 | -av 2 -448   | -   |
| •<br>•                 |                                       |                |                       |                             |         | <u>:</u>   |          |        |          |            | 1                    | :          |                                    |                                   | -mage  |     |
| b-o-onto-mono          |                                       |                |                       |                             | -       | •  |          |        |          | -          | advantskumpresk **** | <u>:</u> - |                                    |                                   |  | -   |
| ,                      | 1                                     | a mean materia |                       |                             |         | ·<br>:   |          |        |          | :          |                      | •          |                                    |                                   |  | -   |
|                        | :                                     |                | :                     |                             |         | •  |          | -      |          |            | - 84<br>             | :          | un major                           |                                   |  | -   |
|                        |                                       |                | *** *****             |                             |         |  |          |        |          | *          |                      |            | 1000                               |                                   |  |     |
| •                      |                                       |                | •                     |                             | •       | •  | •        | •      | •        | •          | •                    | •.         | ,                                  |                                   |  |     |
| •                      | :                                     | ;              | :                     | ;                           | :       | :  | :        | :      | :        | :          | :                    | :          | :                                  |                                   |  | -   |
|                        |                                       |                |                       |                             |         |  |          |        |          |            |                      |            |                                    |                                   |  |     |
| 3                      | :                                     | :              | :                     | •                           | :       | :  | •        | :      | •        | :          |                      | :          | :                                  |                                   |  | -   |
|                        |                                       |                |                       |                             |         |  |          |        |          | 46         |                      |            |                                    |                                   |  |     |
|                        | :                                     | :              | 1.                    | :                           | : .     | :  | :        | :      | :        | :          | :                    | •          | :                                  |                                   |  | 1   |
|                        |                                       |                |                       |                             |         |  |          |        |          |            |                      |            |                                    |                                   |  | 1   |
| :                      | :                                     | :              | :                     | •                           | :       | :  | •        | :      | :        | •          | •                    | :          | *                                  |                                   |  |     |
|                        | ·:                                    | :              | :                     | :                           | :       | :  | :        | : .    | :        | *<br>•     | :                    | :          | :`                                 |                                   |  |     |
| •                      | •                                     | •              | •                     | •                           | •       |  | •        | •      | •        | *          | •                    | •          | •                                  |                                   |  |     |
| :                      | ;                                     | :              | :                     | :                           | :       | :  | •        | :      | :        | 6<br>•     | :                    | :          |                                    |                                   |  |     |
|                        |                                       |                |                       |                             |         |  |          |        |          | •          |                      |            | npur                               |                                   |  |     |
|                        | 4,000                                 |                |                       | · <u>8</u> .                |         |  |          |        | 4.5      | ų          |                      | ooma       | akhin                              |                                   |  | -   |
| oeta                   | Palasbari                             | bari           | pur                   | Mangaldai                   | Nowgong | at *   | Sibsagar | ira    | Golaghat | Dibrugarh  | Tinsukia             | Doom-Dooma | North-Lakhimpur                    |                                   |  |     |
| Barpeta                | Pala                                  | Nalbari        | Tezpur                | Mas                         | Nov     | Jorhat   | Sibs     | Nazira | Col      | Dib        | Tin                  | Doc        | Nor                                |                                   |  |     |

STATEMENT No. VII. - Deaths registered from Cholera in the districts of Assam during each month of the year 1945

|  | Mean ratio of previous 5 years                      | 25         | 61                         | 1.17   | .71<br>.99<br>.73<br>1.56<br>.24                                | 02.    | 68.                     |
|--|---|------------|----------------------------|--------|---|--------|-------------------------|
| perion   | Total   | 24         | .17                        | .54    | .04<br>.19<br>.19<br>.16<br>.28                                 | .15    | .30                     |
| Ratios of deaths per 1,000 of population   | Female  | 23         | .13                        | .51    | .02<br>.20<br>.18<br>.14<br>.31                                 | -14    | .29                     |
| Ratios<br>1,000 of   | Malc  | <b>6</b> 7 | .21                        | .57    | .05<br>.18<br>.20<br>.18<br>.26                                 | .15    | .31                     |
|  | , , lafoT   | 2.5        | 109                        | 2,115  | 39<br>263<br>152<br>127<br>320                                  | 915    | 3,030                   |
| Total  | Female  | 20         | 40                         | 949    | 127<br>66<br>52<br>164<br>6                                     | 423    | 1,372                   |
|  | Male  | 63         | 1,097                      | 1,166  | 31<br>136<br>86<br>75<br>156                                    | 492    | 1,658                   |
|  | December  | [18        | 26                         | 26     | :4 : e v L  | 13     | 39                      |
|  | November  | 17         | 14                         | 14     | 25 : 10 H :   | 15     | 29                      |
|  | October   | 9J         | 28                         | 28     | 4 :::1  | 30     | 28                      |
|  | September   | 15         | 24                         | 24     | 31 : 21 ::  | 42     | 99                      |
|  | August  | 14         | 43                         | 43     | 252 88 9  | 43     | 86                      |
| ,  | Ainl  | 13         | 4 104                      | 108    | 13 13   | 43     | 151                     |
|  | June  | 12         | 20                         | 211    | 111<br>95<br>95<br>30<br>                                       | 171    | 382                     |
|  | VaM   | 11         | 48                         | 353    | 55<br>107<br>107  | 239    | 592                     |
|  | lirqA   | 10         | 31 236                     | 267    | 32<br>60<br>36<br>66  | 195    | 462                     |
|  | March   | 6          | 255                        | 257    | ಬಕುಬಲಕಟ   | 27     | 284                     |
|  | February  | · &        | 1                          | 429    | 6   | 87     | 516                     |
|  | January   | -          | 352                        | 355    | 7: 7: 5   | 10     | 365                     |
| S  | Number from which deaths from cholers were reported | 9          | 79                         | 1,431  | 51<br>*<br>108<br>110<br>*<br>12                                | 281    | 1,7:12                  |
| Villages   | Number in each district                             | w          | 1,175                      | 12,624 | 3,765<br>2,865<br>2,037<br>2,391<br>2,324<br>2,596              | 15,978 | 28,602                  |
| s of<br>ation  | Number from which deaths                            | 4          | 11 40                      | 51     | 7<br>12<br>10<br>10<br>13<br>4                                  | 99     | 107                     |
| Circles of<br>Registration   | Number in each district                             | က          | 13                         | 56     | 20<br>19<br>15<br>13<br>17                                      | 101    | 157                     |
|  | Districts   | 67         | Surma Valley Cachar Sylhet | Total  | Assam Valley Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur | Total  | Total for the province. |
| - And the second of the second | Š   | -          | F 67                       | ,      | w 4 rv 0 1- w   |        |                         |

Number of villages from the 1941 census. \* Figure. not available.

STATEMENT No. VIII. - Deaths registered from Small-pox in the districts of Assam during each month of the year 1945

| c years                  | , i 1, c            | Mean ratio pe<br>population of previo          | 27       |              | .23              | 64.    | .10<br>.24<br>.08<br>.08<br>.08<br>.15  |
|--------------------------|---------------------|--|----------|--------------|------------------|--------|---|
| hs per                   | tion                | Total  | 26       |              | .10              | .48    | .32<br>.38<br>.38   |
| of deaths                | 1,000 of population | Female   | 25       |              | .08              | 2%.    | .33<br>.33<br>.81<br>.33<br>.83   |
| Ratio                    | 1,000               | Male   | 24       |              | .11              | .49    | . 37<br>. 37<br>. 37  |
| Number of deaths amongst | children            | One to 10 years                                | 23       |              | 13               | 244    | 72<br>72<br>15<br>112<br>   |
| Number of death          | chil                | Under I year                                   | 22       |              | 114              | 120    | 22<br>5<br>15<br>15<br>121<br>241   |
|                          |                     | IstoT  | 21       |              | 62 1,834         | 1,896  | 80<br>621<br>67<br>149<br>807<br>218<br>1,942<br>3,838                            |
| Total                    | ,                   | Lemsie   | 20       | `            | 26               | 883    | 31<br>295<br>33<br>64<br>433<br>104<br>960  |
|                          |                     | Male   | 19       |              | 36               | 1,013  | 49<br>326<br>34<br>85<br>374<br>114<br>982<br>1,995                               |
|                          |                     | December                                       | 18       |              | 2.6              | 26     | 33<br>33<br>65<br>65<br>65  |
|                          |                     | November                                       | 17       |              | .25              | 25     | 13<br>15<br>15<br>15<br>15<br>72<br>72  |
|                          |                     | October  | 16       |              | 44               | 44     | 1<br>1 13<br>14 14<br>17<br>75  |
|                          |                     | September                                      | 15       |              | 1 21             | 52     | 27<br>27<br>94  |
|                          |                     | 1suguA   | 14       |              | 30               | 39     | 9<br>112<br>5<br>5<br>46<br>11<br>73  |
|                          |                     | July   | 13       |              | 124              | 124    | 7<br>48<br>6<br>6<br>94<br>155  |
|                          |                     | June   | 12       |              | 140              | 142    | 3<br>113<br>10<br>24<br>95<br>  |
|                          |                     | May  | 11       |              | 230              | 234    | 6<br>96<br>19<br>53<br>163<br>  |
|                          |                     | linqA  | 10       |              | 309              | 330    | 3<br>80<br>3<br>41<br>109<br>95<br>95   |
|                          |                     | - March  | 6        |              | 259              | 265    | 15<br>45<br>464<br>464  |
|                          |                     | February                                       | <b>∞</b> |              | 7                | 273    | 12<br>27<br>6<br>6<br>7<br>113<br>8<br>8<br>173<br>446                            |
|                          |                     | January  | 2        |              | 330              | 342    | 9<br>84<br>7<br>7<br>112<br>39<br>41<br>192<br>534                                |
| Ň                        |                     | Number from wheet from small-<br>were reported | 9        |              | 50<br>1,052      | 1,102  | 37<br>* 24<br>* 80<br>195<br>1,438  |
| Villages                 | ıəiri               | Number in each dis                             | က        |              | 1,175            | 12,624 | 3,765<br>2,865<br>2,037<br>2,391<br>2,324<br>2,596<br>15,978                      |
| Circles of egistration   |                     | Number 'from whi<br>deaths from small-p        | 4        |              | <b>8</b>         | 46     | 10<br>116<br>110<br>113<br>114<br>121   |
| Circles<br>Registra      | toiri               | Nümber in each dist                            | က        |              | 13               | 56     | 20<br>119<br>113<br>117<br>1101   |
|                          |                     | 6  |          |              | : :              | :      | the :::::::   |
|                          |                     | Districts                                      | 62       | Surma Valley | Gachar<br>Sylhet | Total  | Assam Valley Goalpara Kamrup Darrang Nowgong Sibsagar Lakhimpur Total Fotal Fotal |
|                          |                     | · ,  |          |              | 2 C S C          |        | 2000 H  |
|                          |                     | o<br>Z   |          |              |                  |        | , 4 uj © [4 w   |

STATEMENT NO. IX. - Deaths registered from Fevers in the districts of Assam during each month of the year 1945

|  | snoiva                                     | Mean ratio per 1,000 of pr<br>five years          | 25  | 10.82                  | 11.23  | 11.53  |              | 16.83    | 20.9   | 10.70   | 7.88    | 7.62     | 7.36      | 9.28   | 10.03                  |                          |
|--|--|---|-----|------------------------|--------|--------|--------------|----------|--------|---------|---------|----------|-----------|--------|------------------------|--------------------------|
|  | hs per lation                              | Total   | 24  | 09.01                  | 10.11  | 10.19  |              | 13.05    | 5.23   | 9.83    | 5.37    | 8.21     | 5.58      | 7.82   | 8.74                   |                          |
|  | Ratio of deaths per<br>1,000 of population | Female  | 23  | 10.26                  | 9.82   | 68.6   |              | 12.75    | 5.56   | 9.74    | 5.40    | 8.40     | 5.58      | 7.88   | 8.67                   |                          |
|  | Ratio 1,000 c                              | Male  | 22  | 10.01                  | 10.38  | 10.47  |              | 13.31    | 4.95   | 9.92    | 5.34    | 8.03     | 5.58      | 92.2   | 8.81                   |                          |
|  |  | Total   | 53  | 6,725                  | 33,231 | 39,956 |              | 13,982   | 7,271  | 7,895   | 4,160   | 9,322    | 5,406     | 48,036 | 87,992                 |                          |
|  | Total                                      | Female  | 20  | 3,075                  | 15,389 | 18,464 |              | 6,401    | 3,591  | 3,649   | 1,945   | 4,479    | 2,490     | 22,555 | 41,019                 |                          |
|  |  | Male  | 19  | 3,650                  | 17,842 | 21,492 |              | 7,581    | 3,680  | 4,246   | 2,215   | 4,843    | 2,916     | 25,481 | 46,973                 |                          |
|  | ,  | December  | 18  | 537                    | 2,615  | 3,152  |              | 1,091    | 714    | 831     | 433     | 740      | 584       | 4,393  | 7,545                  |                          |
|  |  | November  | 17  | 571                    | 2,987  | 3,558  |              | 1,299    | 467    | 693     | 487     | 872      | 558       | 4,376  | 7,934                  |                          |
|  | Program and an artist of the second        | October   | 16  | 623                    | 2,737  | 3,360  |              | 986      | 421    | 655     | 287     | 891      | 337       | 3,577  | 6,937                  |                          |
| ,  |  | September   | 15  | 479                    | 2,365  | 2,844  |              | 1,165    | 764    | 545     | 389     | 992      | 514       | 4,369  | 7,213                  |                          |
|  | ,  | †suguA  | 14  | 545                    | 2,221  | 2,766  |              | 096      | 949    | 655     | 365     | 983      | 449       | 4,058  | 6,824                  | ble.                     |
|  | 1  | July  | 13  | 591                    | 2,824  | 3,415  |              | 1,490    | 748    | 086     | 225     | 1,304    | 575       | 5,322  | 8,737                  | ot availa                |
|  |  | June  | 12  | 833                    | 2,599  | 3,432  |              | 1,119    | 879    | 606     | 350     | 1,144    | 532       | 4,933  | 8,365                  | * Figures not available. |
|  |  | May   | 11  | 612                    | 2,597  | 3,209  |              | 1,260    | 518    | 735     | 420     | 504      | 605       | 4,042  | 7,251                  | *                        |
| )  |  | lirqA   | 10  | 437                    | 2,298  | 2,735  |              | 1,130    | 474    | 654     | 252     | 467      | 363       | 3,340  | 6,075                  |                          |
|  |  | March   | 6   | 368                    | 2,530  | 2,898  |              | 1,211    | 339    | 417     | 221     | 675      | 437       | 3,300  | 6,198                  |                          |
|  |  | February  | 8   | 451                    | 3,536  | 3,987  |              | 1,105    | 402    | 373     | 347     | 391      | 211       | 2,829  | 6,816                  |                          |
|  |  | January   | 7   | 829                    | 3,922  | 4,600  |              | 1,166    | 668    | 448     | 384     | 359      | 241       | 3,497  | 8,097                  |                          |
|  | દુકલ્ક                                     | Number from which reported                        | 9   | 587                    | 10,132 | 10,719 |              | 3,765    | *      | 843     | 888     | *        | 460       | 5,956  | 16,675                 |                          |
|  | Villages                                   | Number in each district                           | ro. | 1,175                  | 11,449 | 12,624 |              | 3,765    | 2,865  | 2,037   | 2,391   | 2,324    | 2,596     | 15,978 | 128,602                |                          |
|  | Sircles of egistrations                    | Number from which deaths from fever were reported | 4   | 13                     | 42     | 55     |              | 19       | 18     | 14      | 12      | 16       | 17        | 96     | 151                    |                          |
|  | Circles                                    | Number in each district                           | က   | 13                     | 43     | 56     |              | 20       | 19     | 15      | 13      | 17       | 17        | 101    | 157                    |                          |
|  |  |   | -   |                        | :      | :      |              | .:       | :      | :       | :       | :        | :         | :      | vince                  |                          |
| The state of the s |  | Districts   | 61  | Surma Valley<br>Cachar | Sylhet | Total  | Assam Valley | Goalpara | Kamrup | Darrang | Nowgong | Sibsagar | Lakhimpur | Total  | Total for the Province |                          |
|  |  | Š.  |     |                        | ন      |        |              | n        | 4      | <br>2   | 9       | 2 2      | 8         | ,      |                        |                          |

STATEMENT No. X.—Deaths registered from Dysentery and Diarrhoea in the districts of Assam during each month of the year 1945

|   |  |              |              |        |        |        |              |          |        |         |         |          |           |        | 1                      |                         |
|---|--|--------------|--------------|--------|--------|--------|--------------|----------|--------|---------|---------|----------|-----------|--------|------------------------|-------------------------|
| -gluqoo                                     | Mean ratio per 1,000 of ption of previous five years                       | 25           |              | 1:87   | 1.13   | 1.25   |              | .55      | 88.    | 1.70    | 19.     | 1.33     | 1.46      | 06.    | 1.04                   |                         |
| is per ation                                | Total  | 24           |              | 1.78   | 1.07   | 1.18   |              | .05      | -27    | .94     | 69.     | 1.39     | 96.       | 69.    | 88.                    |                         |
| of deaths per<br>of population              | Lemale   | 23           |              | 1.69   | 1.01   | 1.12   |              | -05      | .41    | .93     | .72     | 1.65     | 66.       | 22.    | .91                    |                         |
| Ratio c                                     | Male   | 22           | -            | 1.85   | 1.12   | 1.24   |              | 90.      | .17    | -95     | 19.     | 1.16     | .91       | .61    | 98.                    |                         |
|   | Total  | 21           |              | 1,130  | 3,515  | 4,645  |              | 26       | 388    | 757     | 538     | 1,582    | 920       | 4,241  | 8,886                  |                         |
| Total                                       | Female   | 20           |              | 209    | 1,592  | 2,101  |              | 23       | 263    | 348     | 260     | 884      | 443       | 2,221  | 4,322                  |                         |
| Ē.  | Male   | 19           |              | 621    | 1,923  | 2,544  |              | 33       | 125    | 409     | 278     | 869      | 477       | 2,020  | 4,564                  |                         |
|   | Decemper   | 18           |              | 833    | 304    | 387    |              | -        | 29     | 19      | 31      | 173      | 128       | 441    | 828                    |                         |
| 94  | . Мочетрет   | 17           |              | 96     | 332    | 428    |              | 67       | 28     | 28      | 20      | 202      | 114       | 454    | 882                    |                         |
|   | Octoper .  | 16           |              | 104    | 261    | 365    | ,            | 0        | 28     | 110     | 98      | 197      | 102       | 53.2   | 897                    |                         |
|   | 2eptember  | 15           |              | 92     | 237    | 329    |              | 12       | 61     | 36      | 65      | 122      | 101       | 397    | 726                    |                         |
| 4   | 3suguA   | 14           | 1            | 82     | 187    | 272    |              | 12       | 32     | 42      | 40      | 180      | 107       | 413    | 685                    | le.                     |
|   | July   | 13           | ,            | 75     | 506    | 341    |              | 9        | 28     | 63      | . 28    | 178      | 39        | 342    | 683                    | t availab               |
|   | )nue .   | 12           |              | 124    | 229    | 353    |              | 61       | 38     | 81      | 47      | 122      | 28        | 348    | 701                    | *Figures not available. |
|   | уым  | 11           |              | 136    | 281    | 417    |              | 6        | 15     | 88      | 65      | 134      | 53        | 364    | 781                    | *                       |
| will be a second state of the second second | IinqA  | 10           |              | &<br>& | 262    | 350    |              | :        | 16     | 54      | 30      | 91       | 89        | 259    | 609                    |                         |
|   | Матсh  | 6            | 1            | 75     | 262    | 337    | ,            | •        | 29     | 54      | 25      | 65       | 53        | 296    | 563                    |                         |
|   | February   | <b>&amp;</b> | 1            | 75     | 436    | 511    |              |          | 24     | 47      | 22      | 51       | 37        | 182    | 693                    |                         |
| 4   | January .  | 1            |              | . 97   | 458    | 555    | 0-           | 64       | 09     | 45      | 49      | 29       | 09        | 283    | 838                    |                         |
|   | Number from which deaths<br>from Dysentery and<br>Distrinces were reported | . 9          | 1            | 137    | 2,075  | 2,212  |              | 77       | *      | 100     | 145     | *        | 4.8       | 370    | 2,582                  |                         |
| Villages                                    | Number in each district  | S            | i i          | 1,175  | 11,449 | 12,624 |              | 3,765    | 2,865  | 2,037   | 2,391   | 2,324    | 2,596     | 15,978 | 28,602                 |                         |
| of trio                                     | Number from which deaths<br>from Dysentery and<br>Diarrhoea were reported  | 4            | ,            | 12     | 42     | 40     |              | 7        | 17     | 14      | 12      | 16       | 16        | 82     | 136                    |                         |
| Circles                                     | Number in each district  | ന            |              | . 13   | 43     | 26     |              | 20       | 19     | 15      | 13      | 17       | 17        | 101    | 157                    |                         |
|   |  |              |              | :      | •      | :      |              | :        | :      | :       | :       | :        | *         | :      | nce                    |                         |
|   | Districts  | 67           | Surma Valley | Cachar | Sylhet | Total  | Assam Valley | Goalpara | Kamrup | Darrang | Nowgong | Sibsagar | Lakhimpur | Total  | Total for the province |                         |
|   | · · · · · · · · · · · · · · · · · · ·                                      | 7            |              |        | 8<br>8 |        |              | <u>8</u> | ₹.     | 5 🗆     | 9       | 2        | ∞ →       | •      |                        |                         |

Mean ratio per 1,000 of population of previous five years 14. .19 1.16 .35 .18 .80 .61 1,000 \*84 .26 .35 .35 Total Ratio of deaths per of population 69. .27 .30 Female STATEMENT No.XI.—Death registered from Respiratory diseases in the districts of Assam during each month of the year 1945 .98 .33 .43 .54 .22 .85 .38 .40 Male 2,170 1,391 3,561 Total 1,421 Total Female 1,246 2,140 Male December f07 November **T**9dot2O September 1suguA July auns May Ξ **April** March February 4.2 January diseases were reported Number from which deaths from respiratory Villages 28,602 11,449 3,765 2,865 2,037 2,324 2,596 2,391 Number in each district Circle of registration diseases were reported Number from respiratory Number in each district Assam Valley Goalpara ... Total for the Lakhimpur.. Surma Valley province. Districts Nowgong Kamrup Darrang Sibsagar Cachar Total Total No.

\*Figures not available.

: : Mean ratio of previous five years 25 : : : : 💖 : : : : : : Ratio of deaths per 1,000 of population 24 : Total : : : 23 : : ·: : Female : : 22 Male : : : : 21 : : : Total Total 20 : : Female 19 Male .. : : Decemper 18 : : : 17 : : November : : : October : : 16 : : 15 : : September : : . . . 14 1euguA : : : : : 13 luly 12 : : aun**f** 11 : : May 2 : : : : : : April 6 March : : February  $\infty$ : : January Number from which dead from plague were reported : : : : deaths Villages 3,765 2,865 2,037 2,391 2,324 2,596 1,175 15,978 28,602 12,624 Number from each districts S from plague were reported Circles of Registration : : : : : 4 Number from which deaths 13 20 119 113 117 117 56 157 101 3 Number of each districts ; : Total ... Assam Valley Total for the Province. Surma Valley Total Darrang Nowgong Sibsagar Lakhimpur Districts 63 Goalpara Kamrup Cachar Sylhet No. 8450 F8

STATEMENT No. XII.—Deaths registered from plague in the districts of Assam during each month of the year 1945

# APPENDIX I

PROVINCIAL
Statement showing details of registration in compulsory areas

|                                 | - Statemen           |   | ing uciu              |                                 |                                  | it the t                           | ompaiso               | y wiews               |                       |                          |                      |
|---------------------------------|----------------------|---|-----------------------|---------------------------------|----------------------------------|------------------------------------|-----------------------|-----------------------|-----------------------|--------------------------|----------------------|
|                                 |                      | per 1,000<br>age of                                     | ed during             | ille                            |                                  | Numb<br>deaths re<br>. durin<br>ye | gistered<br>g the     | Death-r<br>mi         | rate per<br>lle       | under                    | •                    |
| ,                               | ,                    | 288<br>een  | ister                 | er m                            | per 1                            | - ui                               | ni                    | in                    |                       | ution<br>3               |                      |
| Compulsory<br>registration area | ion                  | at  | reg                   | ate p                           | rate                             |                                    |                       |                       |                       | prosecution<br>) of 1883 | tion                 |
| registration area               | pula                 | births  | births registered     | ths-r                           | irths-                           | deaths                             | deaths                | deaths                | deaths                | ri                       | onvic                |
|                                 | ed Po                | d bed b   |                       | id bi                           | ed bi                            |                                    | 9t<br>1               |                       |                       | B.                       | o jo                 |
| *                               | Estimated Population | Estimated births at 288 married women between 15 and 40 | Number of<br>the year | Estimated births-rate per mille | Registered births-rate per mille | Including<br>hospital              | Excluding<br>hospital | Including<br>hospital | Excluding<br>hospital | Number<br>Act IV (       | Number of conviction |
|                                 | Est                  | Est<br>m<br>m<br>15                                     | Na<br>th              | Est                             | Re                               | Inc                                | Exc                   | Inc                   | Exc                   | ÄÄ                       | Nur                  |
| 1                               | 2                    | 3   | 4                     | 5                               | 6                                | 7.                                 | 8                     | . 9                   | 10                    | 11                       | 12                   |
| Silchar                         | 18,131               |   | 288                   |                                 | 15.88                            | 192                                | 185                   | 10.59                 | 10.20                 | •••                      | • • •                |
| Hailakandi                      | 3,55 <b>2</b>        |   | .71                   |                                 | 19.99                            | 37                                 | 37                    | 10.41                 | 10.41                 |                          | •••                  |
| Haflong                         | 1,623                |   | 6                     |                                 | 3.69                             | 9                                  | 8                     | 5.24                  | 4.93                  | • • •                    | • • •                |
| Sylhet                          | 31,027               | 1   | 691                   |                                 | 22.27                            | 272                                | 268                   | 8.77                  | 8.64                  | 5                        | •••                  |
| Maulvibazar                     | 6,422                | _   | 91                    |                                 | 14.17                            | 53                                 | 51                    | 8.25                  | 7.94                  | •••                      | • • •                |
| Karimganj                       | 8,732                |   | 120                   |                                 | 13.74                            | 81                                 | 81                    | 9.28                  | 9.28                  | • • •                    | • • •                |
| Habiganj                        | 13,711               |   | 206                   |                                 | 15.02                            | 140                                | 140                   | 10.21                 | 10.21                 | •••                      | • • •                |
| Sunamganj                       | 8,420                |   | 291                   |                                 | 34.56                            | 196                                | 196                   | 23.28                 | 23.28                 | •••                      | • • •                |
| Srimangal                       | 2,952                | ,   | 43                    |                                 | 14.57                            | 20                                 | 20                    | 6.77                  | 6.77                  | • • •                    | • • •                |
| Dhubri                          | 22,399               |   | 346                   |                                 | 15.44                            | 199                                | 195                   | 8.88                  | 8.71                  | •••                      | • • •                |
| Goalpara                        | 8,391                |   | 277                   |                                 | 33.01                            | 129                                | 127                   | 15.37                 | 15.13                 |                          | • • •                |
| Gauripur                        | 5,865                |   | 130                   |                                 | 22.17                            | 72                                 | 72                    | 12.28                 | 12.28                 |                          | •••                  |
| Gauhati                         | 32,978               | able  | 479                   | able                            | 14.52                            | 323                                | 287                   | 9.79                  | 8.70                  | •••                      | •••                  |
| Barpeta                         | 20,499               | Not available   | 610                   | available                       | 29.75                            | 309                                | 306                   | 15.09                 | 14.92                 | •••                      | •••                  |
| Palasbari                       | 3,796                | Not   | 117                   | Not                             | 30.82                            | 63                                 | 63                    | 16.59                 | 16.59                 | •••                      | •••                  |
| Nalbari                         | 3,673                | 1   | 62                    |                                 | 16.88                            | 55                                 | 55                    | 14.97                 | 14.97                 |                          | •••                  |
| Tezpur                          | 12,577               | •   | 294                   |                                 | 23.37                            | 204                                | 197                   | 16.22                 | 15.66                 | 13                       | •••                  |
| Mangaldai `                     | 2,267                |   | 40                    |                                 | 17.64                            | 8                                  | 7                     | 3.52                  | 3.08                  |                          | •••                  |
| Nowgong                         | 14,081               |   | 454                   |                                 | 32.24                            | <b>2</b> 49                        | 236                   | 17.68                 | 16.76                 | 18                       |                      |
| Jorhat                          | 13,103               |   | 171                   |                                 | 13.05                            | 69                                 | .61                   | 5.26                  | 5.03                  |                          | •••                  |
| Sibsagar                        | 7,945                |   | 96                    | 4-                              | 12.08                            | 43                                 | 41                    | 5.41                  | 5.16                  |                          | •••                  |
| Nazira                          | 3,418                |   | 66                    |                                 | 19·3Í                            | 36                                 | 36                    | 10.53                 | 10.53                 | •••                      | •••                  |
| Golaghat                        | 5,808                |   | 117                   |                                 | 20.14                            | 40                                 | 35                    | 6.89                  | 6.02                  | .•••                     | <b>)</b>             |
| Dibrugarh                       | 25,569               |   | 366                   |                                 | 14.57                            | 210                                | 195                   | 8.36                  | 7.62                  |                          | •••                  |
| Tinsukia                        | 9,716                |   | 123                   |                                 | 12.66                            | 62                                 | 58                    | 6.38                  | 5.96                  | •••                      | •••                  |
| Doom Dooma                      | 2,298                |   | 52                    |                                 | 22.63                            | 40                                 | 40                    | 17.41                 | 17.41                 | •••                      | * ***                |
| North Lakhim-                   | 3,080                |   | 46                    | ,                               | 14.93                            | 25                                 | 24                    | 8.12                  | 7.79                  | •••                      | •••                  |
| pur.                            |                      |   |                       |                                 |                                  |                                    |                       |                       |                       |                          |                      |
|                                 |                      | <u> </u>  |                       | 1                               |                                  |                                    |                       |                       |                       |                          |                      |

|                                       |   |                            |                                  |                 | William Communication of the C | 3 S.A.Ss.                                    |  |   |  |  |                          |  |                            | 7.1.2                                | 1. Laby.)  |              |            |                        |               |
|---------------------------------------|---|----------------------------|----------------------------------|-----------------|--|--|--|---|--|--|--------------------------|--|----------------------------|--------------------------------------|------------|--------------|------------|------------------------|---------------|
| Working both in Urban and Rural areas |   |                            | Other staff                      |                 | 21   | 1 D.M.O.H.                                   | 1 D.M.O.H.<br>4 S.D.M.O.H.<br>25 S.A.Ss. | 1 D.M.O.H.<br>1 S.D.M.O.H.<br>7 S.A.Ss. | 1 D.M.O.H.<br>1 S.D.M,O.H.<br>9 S.A.Ss | 1 D.M.O.H<br>1 S.D.M.O.H.<br>6 S.A.Ss. | 1 D.M.O.H.<br>12 S.A.Ss. | 1 D.M.O.H.<br>2 S.D.M.O.H.<br>13 S.A.Ss. | 1 D.M.O.H.<br>1 S.D.M.O.H. | 1 S.A.S. (V.D.)<br>1 S.A.S. (S.L.O.) |            | •            | •          | •                      |               |
| in Urba                               | - |                            | School<br>Medi-<br>cal<br>Offi-  | cers            | 20   | :  | :  | :                                       | :                                      | •                                      | •                        | :  | •                          |                                      |            | <b>5</b>     | :          | •                      | -:            |
| Working both                          |   |                            | ı<br>fealth                      | Tuspectors      | 19   | 6 R.H.Is.                                    | 22 R.H.Is.<br>· 9 A.R.H.Is.              | 5 R.H.Is.<br>4 A.R.H.Is.                | 9 R.H.Is.                              | 5 R.H.Is.                              | 7 R.H.Is.                | 9 R.H Is.                                | 8 R.H.Is.                  | 2 R.H.Is.<br>2 A.R.H.Is.             | 2 R.H.Is.  | 2 R.H.Is.    | 2 R.H.Is.  | 2 R.H.Is.              |               |
|                                       |   | Vaccinators                | Fe-                              | ınale           | 18   | ;  | •  | :                                       | :                                      | :                                      | •                        | •  | •                          |                                      | •          | •            | :          | :                      |               |
| 1                                     |   |                            | Male                             |                 | 17   | 1  |  | က                                       | က                                      | 7                                      | -                        | 4  |                            |                                      | •          | :            | :          | :                      | •             |
| reas                                  |   |                            | Urban<br>Health<br>Offi-<br>cers |                 | 16   | •  | :  | :                                       | -                                      | •                                      | •                        | :  | •                          | :                                    | , ,,       | :            | :          | •                      | •             |
| Urban areas                           |   | th                         | ų į                              | Part            | 15 #   |  | •  | :                                       | :                                      | :                                      | :                        | •  | •                          | :                                    |            | :            | :          | •                      | :             |
|                                       |   | rs of H                    | Licentiat<br>L.P.H.              | Whole           | 14   | 1  | က  | -                                       | :                                      | <del>, - (</del>                       | _                        | 1  | <del></del> 1              | :                                    | :          | :            | ;          | •                      | :             |
| 1                                     |   | Medical officers of Heal   | ing<br>.H.                       | Part<br>time    | 13   | :  |  | •                                       | •                                      | •                                      | :                        | :  | :                          | :                                    | •          | :            | :          | :                      | :             |
|                                       |   | Medic                      | Holding D.P.H.                   | Whole           | 12   | :  | • 1                                      | :                                       | :                                      | :                                      | :                        | :  | :                          | H                                    | :          | •            | •          |                        | :             |
|                                       |   | Ŧ                          | tsith staf                       | Other h         | 11   | :  | •  |   | :. <sup>1</sup>                        | :                                      | •                        |  | :                          | :                                    | _:         | :            | :          | :                      | :             |
| *                                     |   |                            | School<br>Medi-                  | cal<br>officers | 10   | :  | : '                                      | :                                       | :                                      | :                                      | •                        | •  | •                          | *                                    | **         | :            | :          | •                      | 0             |
|                                       |   |                            | Vaccinators                      | Fe-<br>male     | 6  | :  | :  | •                                       | •                                      | •                                      |                          |  | •                          | :                                    | :          | :            | :          | :                      | :             |
|                                       | 1 |                            | Vacci                            | Male            | 8  | 26   | 116                                      | 66                                      | 70                                     | 46                                     | 64                       | 49                                       | 47.                        | ω                                    | (~         | ∞,           | 2          | . م                    | 0             |
| areas                                 |   |                            | Sani-<br>tary                    | Ins-<br>pector  | 7  | :  | :  | :                                       | :                                      | :                                      | :                        | :  | •                          | •                                    | •          | :            | •          |                        | •             |
| Rural a                               |   |                            | Epidemic                         | units staff     | 9  | 2 S.A.S.                                     | 7 ,,                                     | 1 ,,                                    | ens.                                   | 6                                      |                          | . 4                                      | 2 33                       | ind<br>6                             | 1 ,,       | :            | 1 ,,       | :                      | :             |
|                                       |   | th                         |                                  | Part   time     | 25   | <u>                                     </u> | :  | .:                                      | • .                                    | •                                      |                          |  | •                          | :                                    |            | :            | *          | :                      | :             |
|                                       |   | of Heal                    | Licentiate<br>L.P.H.             | Whole ti        | 4  |  | •  |   | •                                      | •                                      | :                        | :  | •                          | •<br>•                               | •          | :            | **         | *                      | •             |
|                                       |   | Medical Officers of Health |                                  | Part W.         | 1 8  | <u> </u>                                     | •  | :                                       | #<br>\$                                | : '                                    | •                        | •  | :                          | •                                    | :          | •            | :          | •                      | :             |
|                                       |   | edical C                   | Holding D.P.H.                   | Whole P         | 2  | :  |  | :                                       |  | :                                      | :                        | ©<br>0                                   | :                          | •                                    | •          | :            | :          | •                      | *             |
|                                       |   | Me                         |                                  | , ti            |  | 1:   | •  | •                                       | :                                      | •                                      | *                        | :  | ÷                          | :                                    | :          | :            | :          |                        | :             |
|                                       |   |                            |                                  |                 |  |  | :  | :                                       | * <del>-</del>                         | :                                      | •                        | :  | •                          | lilla                                | :          | :            | :          | ct                     | ;             |
|                                       |   |                            | District                         |                 | 1  |  |  |   |  | :                                      | :                        | :  | :                          | intia E                              | :          |              | •          | ier Tra                | ç             |
|                                       |   | ,                          |                                  |                 |  | •  | :  | Goalpara .                              | Kamrup                                 | Darrang .                              | Nowgong .                | Sibsagar .                               | Lakhimpur .                | Khasi and Jaintia Hills              | Naga Hills | Lushai Hills | Garo Hills | Sadi ya Frontier Tract | Manipur State |
| 1                                     |   |                            |                                  |                 |  | Cachar                                       | Sylhet                                   | Goal                                    | Kan                                    | Dari                                   | No                       | Sibs                                     | Lak                        | Kha                                  | Nag        | Lus          | Gard       | Sadi                   | Mar           |

APPENDIX III

Table showing Maternity and Child Welfare Centres. Health Visitors and Trained Mid-wives in Rural and Urban Areas in Assam during 1945

|    | 3   | Trained Dhais              | al Urban | . 13 | en<br>en |         |                | ,      | •       | : .     | •        |           | :                       | :          | •            | , , , , , , , , , , , , , , , , , , , | p •                   | O P           | . ,        | 10             |
|----|---|----------------------------|----------|------|----------|---------|----------------|--------|---------|---------|----------|-----------|-------------------------|------------|--------------|---------------------------------------|-----------------------|---------------|------------|----------------|
|    |   |                            | an Rural | 113  | ····     | <u></u> | / <del>:</del> | •      |         |         |          |           | :                       | •          |              | a <b>(III)</b>                        |                       |               | tora./h/ t | t-             |
|    | Staff   | Trained mid-wife           | Urban    | 11   |          | 9       | :              | •      | :       | :       | :        | :<br>:    | •                       | •          | :            |                                       | :                     | :             |            | 12             |
| F. |   | Trai                       | Rural    | 10   |          | ,       |                | :      | A       | :       | :        |           | :                       | :          | :            | :                                     | :                     | •             |            | ,              |
|    |   | Trained visitors           | Urban    | 6    | :        | :       | :              | :      | :       | :       | :        | :         | :                       | •          | :            | :                                     | •                     | •             | ·          | :              |
|    |   | Train                      | Rural    | 80   | :        |         | :              | :      |         |         | 79       | •         |                         | :          | :            | :                                     | :                     | :             |            | 4              |
|    |   | Other Agents               | Rural    |      | :        | :       | :              | :      | :       | :       | :        | :         | :                       | :          | :            | :                                     | :                     | :             |            |                |
|    | intained by—                                      |                            | Urban    | 9    |          | 8       |                | :      |         |         |          | :         | -                       | :          | :            |                                       | •                     | :             |            | 10             |
|    | Maternity and Child Welfare Centres maintained by | Local and municipal bodies | Rural    | 25   | •        | :       | :              | :      | :       | :       | •        | :         | :                       | :          | :            | :                                     | :                     | :             |            |                |
|    | d Child Welfa                                     | Local and m                | Urban    | 4    | :        | :       | :              | :      | `:      | •       | :        | :         | :                       | :          | :            | :                                     | :                     | :             | \          |                |
|    | Maternity an                                      | Government                 | Rural    | , es | :        | :       | :              | :      | •       | :       | •        | :         | :                       | :          | :            | :                                     | :                     | :             |            | •              |
|    |   | Gover                      | Urban .  | 64   | •        | :       | •              | :      | :       | :       | :        | :         |                         | :          | :            | :                                     | :                     | :             |            |                |
|    | £   |                            |          |      | :        | :       | :              | :      | :       | :       | :        | :         | :                       | :          | :            | :                                     | :                     | :             |            | :<br>. •<br>:: |
|    |   |                            | ,        |      | :        | :       | :              | :      | :       | :       | :        | :         | :                       | :          | :            | :                                     | :                     | :             |            | :              |
|    |   | ÷:                         |          |      | :        | :       | :              | :      | :       | :       | :        | :         | :                       | :          | :            | :                                     | :                     | \$<br>•       |            | Total          |
|    |   |                            |          |      | :        | :       | :              | :      | •       | ·:      | :        | •         | :                       | :          | :            | :                                     | :                     | :             |            |                |
|    | *   |                            |          |      | :        | :       | :              | • •    | •       | :       | :        | :         | intia Hills             | :          | . :          | :                                     | er Tract              | :<br>:        |            |                |
|    |   |                            |          |      | Cachar   | Sylhet  | Goalpara       | Kamrup | Darrang | Nowgong | Sibsagar | Lakhimpur | Khasi and Jaintia Hills | Naga Hills | Lushai Hills | Garo Hills                            | Sadiya Frontier Tract | Manipur State |            | *              |

VACCINATION STATEMENT No.I.

A.—VACCINATION DEPARTMENT

VACCINATION STATEMENT No. I.—Showing particulars of vaccination in the province of Assam during the year 1945

|     |                                      |         |                    |           |     |    |   |                    | Pr             | imary vad         | ccination         | Primary vaccination including | Secondary    | ry   |            | T. Contraction of the Contraction |   | -un   | nta                                | e of suc-                    | leage  |
|-----|--------------------------------------|---------|--------------------|-----------|-----|----|---|--------------------|----------------|-------------------|-------------------|-------------------------------|--------------|--|------------|-----------------------------------|---|---|------------------------------------|------------------------------|--|
|     |                                      |         |                    |           |     |    |   | ио                 |                | Successful        | ssful             |                               |              | veri-  |            | *vaccinat                         | nor   | guibul                                      | cess amost the verified operations | among<br>verified<br>rations | percer   |
| ° Z |                                      | Distri  | Districts or towns | towns     |     |    |   | Estimated populati | Under one year | One to five years | Five to ten years | IstoT                         | Unsuccessful | Total among the un<br>fied primary and se<br>dary vaccinations | Successful | Unsesoousalul                     | Total including vac-<br>sanifical vac-<br>sanifical sanifical | Potal operations inc<br>verified operations | condary plus Se-                   | Se-vaccination               | ecessfully vaccinated<br>under one year as a<br>of total births d  |
| -   | 64                                   |         |                    |           |     |    |   | က                  | 4              | 25                | 9                 | 7                             | 8            | 6  | 10         | 11                                | 12  | 13  | 41                                 | 15                           | چ<br>16  |
|     | DISTRICTS (EXCLUDING TOWNS)          | UDIN    | G TO               | VNS)      |     |    |   |                    |                |                   |                   |                               |              |  |            |                                   |   |   |                                    | 1                            |  |
|     | Surma Valley and                     | Hill    | Hill Division      | , , , , , |     |    |   |                    |                |                   |                   |                               |              |  |            |                                   |   |   |                                    |                              |  |
| H   | Silchar Subdivision                  | :       | :                  | :         |     | :  | : | 314,874            | 1,153          | 7,017             | 1,715             | 9,887                         | 211          | 10,125   | 17,832     | 12,167                            | 32,016  | 42,141                                      | 97.91                              | 59.44                        | 18.33  |
| 63  | Haflong Subdivision                  | :       | •                  | :         | :   | :  | : | 37,776             | 253            | 1,320             | 757               | 2,330                         | 169          | 2,723  | 1,151      | 744                               | 2,758   | 5,481                                       | 93.23                              | 60-73                        | 7.90   |
| ಣ   | Hailakandi Subdivision               | •       | *                  |           | :   | :  | : | 133,779            | 620            | 6,005             | 698               | 7,494                         | 73           | 7,965  | 20,446     | 4,881                             | 27,960  | 35,925                                      | 99.03                              | 80.73                        | -  |
| 4   | Sylhet Subdivision                   | :       | *                  | •         | :   | :  | • | 656,710            | . 2,508        | 12,292            | 4,678             | 19,707                        | 847          | 23,134   | 17,763     | 14,756                            | 38,362  | 61,496                                      | 95.87                              | 54.62                        | 18.50  |
| S   | Maulvibazar Subdivision              | *       | •                  |           |     | :  | : | 438,052            | 3,840          | 9,314             | 4,786             | 17,940                        | 200          | 19,503   | 19,345     | 15,902                            | 40,645  | 60,148                                      | 98.89                              | 54.88                        | 36.85  |
| 9   | Karimganj Subdivision                | :       | :                  | •         | :-, | :  | : | 535,777            | 2,542          | 15,689            | 3,713             | 22,044                        | 374          | 22,567   | 48,709     | 10,188                            | 59,769  | 82,336                                      | 98.33                              | 82.70                        | 27.16  |
| 2   | Habiganj Subdivision                 | : 10    | :                  | •         | :   | :  | : | 702,780            | 3,980          | 30,050            | 4,097             | 38,127                        | 444          | 39,076   | 31,782     | 4,154                             | 38,903  | 979,77                                      | 98.84                              | 88-44                        | 24.95  |
| ∞   | Sunamganj Subdivision                | :       | :                  | :         | :   | ;  | : | 676,450            | 1,439          | 13,146            | 2,470             | 17,145                        | 1,193        | 21,071   | 18,814     | 14,202                            | 45,521  | 66,592                                      | 93.49                              | 56.98                        | 15.37  |
| 6   | Shillong Subdivision                 | :       | :                  | :         | :   | :  | : | 217,252            | 1,941          | 66969             | 1,390             | 10,030                        | ro           | 10,035   | 13,166     | 9,556                             | 23,254  | 33,289                                      | 99-95                              | 57.94                        |  |
| 10  | Jowai Subdivision                    |         | ;                  | :         | :   | ١: | : | 87,827             | 1,765          | 1,879             | 1,240             | 4,884                         | 63           | 4,886  | 3,134      | 1,825                             | 6,109   | 10,995                                      | 96.66                              | 63.19                        | ;  |
| 11  | Naga Hills District                  |         | :                  | ·<br>·    | :   | :  | : | 190,489            | 1,649          | 3,113             | 304               | 5,066                         | 639          | 6,054  | 9,364      | 4,516                             | 14,547  | 20,601                                      | 88.95                              | 97.46                        | •  |
| 12  | Lushai Hills District                | :       | :                  |           | :   | 2  | : | 165,084            | 894            | 3,270             | 1,255             | 5,419                         | 1,111        | 6,973  | 5,273      | 3,983                             | 11,454  | 18,427                                      | 82.98                              | 26.92                        | • •  |
|     | Total Surma Valley and Hill Division | lley ar | IIII pu            | Division  | :   | *  | : | 4,156,850          | 22,586         | 109,794           | 27,274            | 160,073                       | 5,258        | 174,112  | 206,779    | 96,874                            | 341,298   | 515,410                                     | 96.82                              | 60.89                        |  |
|     |                                      | •       |                    |           |     |    |   |                    |                |                   |                   |                               |              |  |            |                                   | on starteness and provide the same  | -   |                                    |                              | And the state of t |

| -        |                             |    |          |   |     |    | *** |            |        |         |        | -       | -      |                  |         |         |         |           |       |       |            |
|----------|-----------------------------|----|----------|---|-----|----|-----|------------|--------|---------|--------|---------|--------|------------------|---------|---------|---------|-----------|-------|-------|------------|
|          | Assam Valley Division       | no |          |   |     |    |     |            |        |         |        |         |        |                  |         |         |         |           |       | •     | :          |
| 13       | Dhubri Subdivision          | :  | :        | : | :   | :  | :   | 723,828    | 4,204  | 21,242  | 5,028  | 38,730  | 713    | 40,635           | 43,407  | 6,685   | 59,240  | 99,875    | 93.19 | 86.65 | :          |
| 14       | Goalpara Subdivision        | :  | •        | : | :   | :  | :   | 303,628    | 1,294  | 1,006   | 1,003  | 3,859   | 168    | 4,282            | 9,448   | 6,118   | 18,996  | 23,278    | 95.82 | 69.69 | 33.57      |
| 15       | Gauhati Subdivision         | :  | :        | : | :   | :  | :   | 827,161    | 3,576  | 9,936   | 1,191  | 15,503  | 946    | 18,425           | 25,619  | 16,010  | 62,839  | 86,264    | 94.24 | 61.51 | 31.53      |
| 91       | Barpeta Subdivision         | :  | :        | : | :   | :  | •   | 492,089    | 1,378  | 9,212   | 3,549  | 14,139  | 662    | 15,972           | 8,985   | 36,181  | 15,903  | 31,875    | 95.52 | 19.39 | 47.43      |
| 17       | Tezpur Subdivision          | :  | ٠        | : | :   | :  | :   | 314,141    | 3,392  | 8,663   | 1,276  | 13,331  | 419    | 14,318           | 30,245  | 12,407  | 49,508  | 63,826    | 95.26 | 71.58 | 72:80      |
| 18       | Mangaldai Subdivision       | :  | · :      | : | :   | :  | :   | 321,588    | 2,772  | 7,453   | 909    | 11,190  | 371    | 11,713           | 16,151  | 2,037   | 19,501  | 31,214    | 62.96 | 88-36 | 49.17      |
| 16       | Nowgong District            | :  | :        | : | :   | :  | :   | 734,898    | 6,897  | 12,015  | 5,420  | 24,332  | 1,730  | 27,292           | 46,167  | 22,360  | 78,514  | 105,806   | 93.18 | 67-37 | 79.29      |
| 20       | Jorhat Subdivision          | :  | :        | : | :   | :  | :   | 293,127    | 1,387  | 7,327   | 144    | 10,690  | 513    | 11,822           | 17,966  | 7,222   | 30,684  | 42,506    | 95-42 | 71-33 | 26.6       |
| 21       | Sibsagar Subdivision        | :  | :        | : | :   | :  | :   | 300,064    | 1,269  | 2,306   | :      | 4,075   | 1,027  | 5,727            | 2,818   | 12,275  | 15,123  | 20,850    | 79.95 | 18.83 | 32.92      |
| 63       | Golaghat Subdivision        | :  | :        | : | :   | :  | :   | 230,334    | 1,344  | 4,722   | ;      | 7,007   | 653    | 8,605            | 6,762   | 2,447   | 12,427  | 21,032    | 91.47 | 73.43 | 32.73      |
| 23       | Dibrugarh Subdivision       | :  | :        | : | . : | :  | :   | 422,914    | 1,947  | 10,554  | 2,684  | 15,185  | 1,190  | 16,689           | 26,407  | 20,165  | 49,719  | 66,408    | 92.73 | 56-70 | 37.56      |
| 24       | North Lakhimpur Subdivision | on | :        | : | :   | :  | :   | 206,154    | 1,369  | 8,196   | 1,695  | 11,260  | 2,220  | 13,677           | 18,429  | 9,786   | 32,434  | 46,111    | 83.53 | 65.32 | 14.67      |
| 153      | Garo Hills District         | •, | :        | : | :   | :  |     | 234,624    | 3,645  | 2,746   | 6:4    | 6,391   | 647    | 1.97.4           | 3,756   | 1,524   | 6,158   | 14,132    | 90.31 | 71.14 | , <b>:</b> |
|          |                             |    |          |   |     | ,  |     |            |        |         |        |         |        |                  |         |         |         |           |       |       |            |
|          | Total of Assam Valley       |    | Division | : | :   | :  |     | 5,404,550  | 34,474 | 105,378 | 23,270 | 175,692 | 11,504 | 197,131          | 256,190 | 155,247 | 456,046 | 653,177   | 93.83 | 62.26 |            |
|          |                             | ,  |          |   |     |    | 1   |            |        |         |        |         |        |                  |         |         | 4.      |           |       |       |            |
| 26       | Manipur State               | :  | :        | : | :   | :  | :   | 540,868    | 6,216  | 5,070   | 2,665  | 13,951  | 2,320  | 18,100           | 8,167   | 3,947   | 14,739  | 32,839    | 85.74 | 67.42 |            |
| . 27     | Sadiya Frontier Tract       | :  | :        | : | :   | •  | :   | 61,992     | 1,384  | 1,421   | 540    | 3,345   | 495    | 4,571            | 6,751   | 2,571   | 11,952  | 16,523    | 87.33 | 72.42 | :          |
| €¥ <br>∞ | Balipara Frontier Tract     | :  | :        | : | :   | ·: | :   | 6,914      | ; :    | :       |        | :       | :      | <b>:</b>         |         | :       | :       | :         | :     | •     | :          |
|          |                             |    |          |   |     |    |     |            |        |         |        |         |        | - ne householder |         |         |         |           |       |       |            |
| i di     | Total of the districts      |    | :        | : | :   | :  |     | 10,171,174 | 64,660 | 221,663 | 53,749 | 353,061 | 19,567 | 393,914          | 477,887 | 258,639 | 824,035 | 1,217,949 | 95.00 | 98.₹9 | :          |
| ,        |                             |    |          |   |     |    |     |            |        |         |        |         |        |                  |         |         |         |           |       |       |            |
|          |                             |    |          | - |     |    |     |            |        |         |        |         |        |                  |         |         |         |           |       |       |            |

# A.—VACCINATION DEPARTMENT

VACCINATION STATEMENT No. I.-Showing particulars of Vaccination in the Province of Assam during the year 1945

|                |                 |                                   |                 |                          |        |    |                   |              | Primary      | vaccinati     | ion incluc | Primary vaccination including secondary | dary  | Re         | Re-vaccination | ion                                 | -un S                                 | Percentage of success among | age of         | rcen-  |
|----------------|-----------------|-----------------------------------|-----------------|--------------------------|--------|----|-------------------|--------------|--------------|---------------|------------|---|---|------------|----------------|-------------------------------------|---------------------------------------|-----------------------------|----------------|--|
|                |                 |                                   |                 |                          |        |    | noi               |              | Successful   | essful        |            |   | -inevi  |            |                | -iveri-                             | guibulə                               |                             | verified       | s ber  |
| o Z.           | Distr           | Districts or Towns                | wws             |                          |        |    | Estimated populat | Under I year | l to 5 years | 5 to 10 years | IsioT      | Unlegged                                | Total including ur<br>bed primary and s<br>dary vaccination | Successful | Unsuccessful   | Total including un<br>noisarago bañ | ni noisraeo IstoT<br>noisraeo bahirav | Primary plus                | Re-vaccination | Successfully vaccina under one year as tage of the total bit the year 1945 |
| 1              | . 62            |                                   |                 |                          |        |    | ಣ                 | 4            | LO.          | 9             | 7          | ω                                       | 6   | 10         | 11             | 12                                  | 13                                    | 14                          | 15             | 16   |
|                | B<br>Surma Vall | B.—TOWNS<br>Surma Valley and Hill | S<br>I Division |                          |        |    |                   |              | ,            |               |            |   |   |            |                |                                     |                                       | -                           |                |  |
| 1              | Silchar         | :                                 | :               | :                        | :      | :  | 18,131            | 153          | 48           | :             | 201        | :                                       | 252   | 418        | 1,612          | 11,111                              | 11,363                                | 100.00                      | 37.62          | 53.12  |
| 63             | Hailakandi      | :                                 | :               | :                        | :      | :  | 3,552             | 4            | 33           | :             | 37         | :                                       | . 33  | 53         | 16             | 94                                  | 131                                   | 100.001                     | 77.94          | 2.41   |
| 67             | Haffong         | :                                 | :               | :                        | :      | :  | 1,623             | φ            | 19           | :             | 27         | 7                                       | 560   | 222        | 127            | 534                                 | 268                                   | 79.41                       | 63.67          | :  |
| **             | Sylhet          | :                                 | :               | :                        | :      | :  | 31,027            | 230          | 171          | S             | 406        | 13                                      | 429   | 336        | 2,274          | 2,829                               | 3,258                                 | 68.96                       | 12.87          | 33.28  |
| ເລ             | Karimganj       | :                                 | :               | :                        | :      | :  | 8,734             | 59           | 12           | rs.           | 98         | 2                                       | 66  | 481        | 196            | 694                                 | 793                                   | 04.20                       | 71.64          | 49.16  |
| 9              | Maulvi Bazar    | :                                 | :               |                          | :      | :  | 6,422             | 61           | :            | :             | 19         | :                                       | 19  | 202        | 609            | 811                                 | 872                                   | 100.00                      | 24.90          | 67-03  |
| -              | Srimangal       | :                                 | :               | :                        | :      | :  | 2,952             | 7            | 16           | :             | 23         | :                                       | 23  | 21         | 35             | 26                                  | 19                                    | 100.00                      | 37.50          | 16.28  |
| <b>93</b><br>/ | Habiganj        |                                   | :               | :                        | :      | :  | 13,711            | 35           | 166          | :             | 219        | 7                                       | # 67<br>61  | 1,606      | 936            | 2,660                               | 2,884                                 | 69.66                       | 63.17          | 16.99  |
| 6              | Sunamganj       | :                                 | :               | :                        | :      | :  | 8,420             | 09           | 102          | 38            | 208        | 34                                      | 274   | 320        | 333            | 763                                 | 1,037                                 | 85.95                       | 40.64          | 20.61  |
| 10             | Shillong        | :                                 | :               | :                        | :      | :  | 45,511            | 200          | 124          | 100           | 424        | :                                       | 424   | 15         | 35             | 1,829                               | 2,253                                 | 100.001                     | 37.50          | 33.2   |
| =              | Jowei           | :                                 | :               | :                        | :      | :  | Not avail-        | 24           | ∞            | ¢1            | 3.4        | :                                       | 34  | :          | :              | :                                   | 34                                    | 100.001                     | :              | :  |
| 12             | Kolima          | :                                 | :               | :                        | :      | 1. | 3,832             | •            | 18           | :             | 18         |   | 23  | 80         | 79             | 250                                 | 273                                   | 100.001                     | 50.31          | <b>:</b>   |
|                | Tetal of Surma  |                                   | alley and       | Valley and Hill Division | vision | :  | 143,913           | 841          | 717          | 150           | 1,744      | 61                                      | 1,914   | 3,754      | 6,252          | 21,631                              | 23,545                                | 96.62                       | 37.52          | £ .  |
|                |                 |                                   |                 |                          |        |    |                   |              |              | •             |            |   |   |            |                |                                     |                                       |                             |                |  |

|                       | 28898888888888888888888888888888888888   | 1        | 1      |                       |                |                  | 1                         | ļ                    | 1.0  | 1                             | 1               | and the second |
|-----------------------|--|----------|--------|-----------------------|----------------|------------------|---------------------------|----------------------|--|-------------------------------|-----------------|----------------|
|                       | 63.28<br>443.31<br>30.16<br>30.16<br>64.51<br>33.33<br>30.16<br>64.51<br>5.64<br>64.51<br>5.64<br>7.66<br>7.66<br>7.66<br>7.66<br>7.66<br>7.66<br>7.66<br>7        | :        |        | •                     |                | •                | •                         | •                    | •  | :                             | · ·             |                |
|                       | 98.35<br>36.33<br>76.35<br>45.83<br>53.59<br>100.00<br>48.96<br>79.55<br>14.42<br>17.57<br>65.08<br>65.08<br>65.08   | 53.26    |        | 78-96                 | 53.79          | 64.44            | 55.73                     | 63.50                | 38.81  | 28.36                         |                 | 64.04          |
|                       | 100.00<br>93.47<br>97.37<br>99.69<br>94.02<br>98.90<br>98.90<br>98.52<br>98.52<br>96.20<br>98.52<br>96.20<br>96.20<br>96.20<br>97.00<br>100.00<br>100.00<br>100.00 | 97-73    |        | 93-33                 | 97.29          | 95.02            | 91.30                     | 93.86                | 91.19  | 93.02                         | :               | 94-70          |
|                       | 3,724<br>3,724<br>1,664<br>1,664<br>1,388<br>2,797<br>2,797<br>3,098<br>1,097<br>1,097<br>122  | 23,012   |        | 3,979                 | 50,536         | 1,268,485        | 14,963                    | 100,357              | 6,983  | 1,253                         |                 | 1,395,041      |
|                       | 3,254<br>1,210<br>1,210<br>1,240<br>1,240<br>1,240<br>1,240<br>3,016<br>2,321<br>1,065<br>1,065<br>2,48  | 19,417   |        | 3,859                 | 44,907         | 868,942          | 12,960                    | 71,713               | 9,561  | 1,131                         | •               | 964,307        |
|                       | 53<br>417<br>209<br>139<br>429<br>546<br>1,178<br>1,178<br>1,120<br>2,581<br>113<br>113<br>113<br>113<br>113<br>113<br>113<br>1                                    | 7,032    |        | 733                   | 14,017         | 272,656          | 1,798                     | 24,626               | 5,201  | 404                           | :               | 304,685        |
| -                     | 3,162<br>238<br>6738<br>6738<br>617<br>1,130<br>495<br>485<br>435<br>1,710<br>1,710<br>822<br>606<br>844<br>846  | 9,818    |        | 2,752                 | 16,324         | 494,211          | 2,264                     | 42,853               | 3,300  | 160                           | :               | 542,788        |
|                       | 444<br>100<br>100<br>100<br>100<br>100<br>100<br>100   | 3,595    |        | 120                   | 5,629          | 399,543          | 2.603                     | 28,644               | 4.<br>62.  | 122                           | •               | 430,734        |
|                       | 12 12 13 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19   | 80       |        | 7                     | 14.8           | 19,715           | 157                       | 1,739                | 31   | 60                            | :               | 21,645         |
|                       | 2020<br>1120<br>1200<br>1300<br>1300<br>1300<br>1300<br>1300   | 3,452    |        | 95                    | 5,291          | 358,352          | 1,648                     | 26,606               | 322  | 40                            | :               | 386,968        |
|                       | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 61       |        | 10                    | 221            | 53,970           | 243                       | 3,923                | 53   | 11                            | :               | 58,200         |
| <i>;</i>              | 252<br>823<br>824<br>1443<br>179<br>179<br>235<br>235<br>174<br>174<br>175<br>176<br>177<br>178<br>178<br>178<br>178<br>178<br>178<br>178<br>178<br>178            | 1,597    |        | 26                    | 2,340          | 224,003          | 902                       | 6,618                | 75   | 19                            | :               | 231,620        |
|                       | 219<br>120<br>93<br>120<br>184<br>46<br>43<br>134<br>154<br>154<br>134<br>134<br>134<br>134<br>134<br>134<br>134<br>134<br>134<br>13                               | 1,787    | Known. | 59                    | 2,687          | 67,347           | 425                       | 14,747               | 21   | 10                            | :               | 82,550         |
|                       | 27,399<br>8,391<br>8,391<br>20,865<br>3,796<br>12,577<br>12,267<br>13,103<br>13,103<br>2,268<br>2,123<br>2,123<br>3,418<br>3,418<br>3,418                          | 200,163  | Not    | 1,055                 | 341,131        | 10,171,194       | :                         | 1,143,179            | :  | :                             | :               | 11,659,484     |
| `                     |  | :        | :      | :                     | :              | :                | :                         | :                    | spita's,   | aries.                        | ) <b>t</b>      | •              |
|                       | :::::::::::::::::::::::::::::::::::::::  | Division | :      | :                     | Total of Towns | ne Department    | Total of Dispensary staff | Total of Tea Gardens | ous diseases Hospita's,  | Total of Railway Dispensaries | g Vaccine Depôt | Grand total    |
| ·<br>vision           | :::::::::::::::::::::::::::::::::::::::  | Valley D | :      | :                     | To             | Total of Vaccine |                           | Total of             | Total of Jails, Mental Hospital, Infectious dis Police Hospital, Governn ent vaccinations in Lakhimpur | Total of                      | Shillong        |                |
| Assam Valley Divîsion |  | f Assam  | :      | ;                     |                | Tot              |                           |                      | al Hospital,<br>vaccination  |                               |                 |                |
| Assam                 |  | Total of | :      | :                     |                |                  |                           |                      | is, Mental   |                               |                 | *              |
|                       | :::::::::  |          | :      | r Tract               |                |                  |                           |                      | Total of Jails,<br>Iospital, Gover   |                               |                 |                |
|                       | Goalpara Goauripur Gauhati Barpeta Palashbari Nalbari Tezpur Mangaldai Nowgong Jorhat Sibsagar Golaghat Nazira Dibrugarh Tinsukia Doom Dooma North Lakhimpur Tura  |          | Imphal | Sadiya Frontier Tract |                |                  |                           |                      | To<br>Police Hos   |                               |                 |                |
|                       | 13   |          |        | 33 Sa                 |                |                  |                           |                      |  |                               |                 |                |
|                       | ,  |          |        |                       |                |                  | •                         |                      |  |                               |                 |                |

# B.—DISPENSARY VACCINATION

STATEMENT No. II.—Showing Dispensary Vaccination in the Province of Assam during the year 1945

|    | 4                                       | ಬ                             | l          |  | ,  |        |        |                         |   |              |          |         |         |          |           |               |                        |                         |       |        |        |
|----|---|-------------------------------|------------|--|--|--------|--------|-------------------------|---|--------------|----------|---------|---------|----------|-----------|---------------|------------------------|-------------------------|-------|--------|--------|
| ٠, | Percentage of unknown                   | cases to the total cases      |            | Re-vac-                                  |  | 15     |        | 18.86                   | 67.10                                   | 79.62        | .19      | 00.     | :       | 00.      | 20 98     | :             | 4.58                   | : 0                     | 14.6  |        | 68.65  |
|    |   | cases to tl                   |            | Primary plus sccondary                   | Secretary of State of | 44     |        | 00.                     | 00.                                     | 00.          | 00.      | 00.     |         | 76.0     | 99.8      | •             | 00.                    | 30.00                   | 26.90 |        | 9.83   |
|    | Percentage of success                   | among the verified operations | ,          | Re-vacci-<br>nation                      |  | 13     | 61.44  | 100.00                  | 31.05                                   | 89-95        | 59.11    | 43.84   | 4.9.55  | 20 25    | 40.63     |               | 00.10                  | 02:30                   | 0) 60 |        | 55.74  |
| -  | Percentag                               | among t                       |            | Primary plus sccondary                   |  | 12     | 77.49  | 100.00                  | 100.00                                  | 100.00       | 100.00   | 73.47   | 76.10   | :        | 86.44     | 77.99         | 77.11                  | 27.06                   |       |        | 91.36  |
|    | bəñi                                    | IUACL                         | . Zaibulo  | ni enoiterado leto<br>enoiterado         | L  | 11     | 687    | 150                     | 000000000000000000000000000000000000000 | 1,110        | 1,039    | 92      | 1 267   | : ::     | 404       | 071           | 0/1                    | 440                     | 244   |        | 14,963 |
|    | נוס                                     |                               | bəlirəvn   | lotal including u<br>vaccination         |  | 0.1    | 652    | 124                     | 7,864                                   | 1,070        | 1,017    | 45      | 1.200   | :        | 81        | 654           | # 00                   | 255                     | :     | 0000   | 12,960 |
|    | Re-vaccination                          |                               |            | Unsuccess-<br>ful                        |  | ,      | 204    |                         | 131                                     | 21           | 415      | 77      | 632     |          | 38        | 302           | ì                      | 33                      | :     | 1 700  | 1, (98 |
|    | E4                                      |                               |            | Successful                               | 0  | 0      | 325    | 43                      | 29                                      | 197          | 910      | 177     | 468     |          | 70        | 322           |                        | 198                     | :     | 1966   | ₹07°7  |
|    | ary                                     | -in<br>noi:                   | verified p | Total including unr<br>mary and secondar | 1  | -      | 35     | 56                      | 1,019                                   | 9.0          | 77       | H       | 29      |          | 523       | 237           |                        | 185                     | :     | 9 003  | 6006   |
|    | g second                                |                               |            | IntersoonenU                             |  |        | 10     | :                       | :                                       | :            | 13       | 1       | 15      |          | 04        | 54            | :                      | 25                      | :     | 157    | •      |
|    | Primary vaccination including secondary |                               |            | lsto'T                                   | FC.  |        | 25     | 26                      | 929                                     | 40           | 36       | :       | 43      | 955      | 007       | 183           | :                      | 84                      | *     | 1.648  |        |
|    | vaccinati                               | Successful                    |            | Five to ten years                        | 4  |        | 2      | ::0                     | 213                                     | : :          | 00       | :       | •       | :        | : :       | :             | :                      | . 15                    | :     | 243    |        |
|    | rimary                                  | Succ                          |            | One to five years                        | 60   |        | တင္    | 19                      | 450                                     | . 22         | 19       | :       | 2       | 169      | · :       | 153           | •                      | 49                      | :     | 905    |        |
|    | 14                                      |                               |            | Under one year                           | 2  |        | 10     | 5000                    | 007                                     | 30           | 6        | :       | :       | 56       | :         | 30            | : :                    | 20                      | :     | 425    |        |
| -  | aren in a fin in the angel              | . La camericación             |            |  |  |        | ÷      | :                       | : ,                                     | : :          | :        | :       | :       | :        |           | :             | :                      | :                       | :     | ;<br>; |        |
|    |   |                               |            |  |  |        | :      | :                       | :                                       | :            | :        | :       | :       | : :      | :         | :             | :                      | :                       | :     | :      |        |
|    |   |                               | District   | . 11                                     | 1  |        | :      | :                       | : :                                     | :            | :        | :       | :       | : :      | :         | :             | :                      | :                       | :     | :      |        |
|    |   | ,                             | <b>→</b>   |  |  |        | :      | :                       |   | :            | :        | :       | :       | :        | :         | :             | :                      | :                       | :     | :      |        |
|    |   |                               |            |  | And the state of t | Cachar | Sylhet | Khasi and Jaintia Hills | Naga Hills                              | Lushai Hills | Goalpara | Namitup | Nowgong | Sibsagar | Lakhimpur | Manipur State | Sadiva Frontier Tiract | Balipara Frontier Tract |       | Total  |        |

|   | 7    |          |
|---|------|----------|
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| ζ |      | 2        |
|   |      |          |

|  | •           | 4              |          |   |   | • | Among Canada | Total number of operations performed | of opera-<br>ormed   | Percentage<br>ful cases ir<br>results w | Percentages of successful cases in which the results were known | Number o           | Number of children successfully<br>vaccinated | ccessfully        | Number of all success.               |
|--|-------------|----------------|----------|---|---|---|--------------|--------------------------------------|--|---|---|--------------------|---|-------------------|--------------------------------------|
|  |             |                |          |   |   |   | , o          | Primary plus secondary               | Re-vacci-<br>nation  | Primary plus secondary                  | Re-vaccina-<br>tion   | Under one<br>year. | One to five<br>years                          | Five to ten years | ful vaccina-<br>tions per-<br>formed |
|  |             |                |          |   |   |   |              | 63                                   | m  | 4                                       | No.   | . ,0               | 7   | ∞                 | 6                                    |
| By special staff—                      | ۵           |                |          |   |   |   | ,            | ,                                    |  |   |   |                    |   |                   |                                      |
| Districts excluding towns              | :           | :              | :        | : | : | ÷                                       | :            | 393,914                              | 824,035  | 00.26                                   | . 64.88   | 64,660             | 221,663                                       | 53,749            | 830,948                              |
| Towns suwoI                            | U<br>0<br>0 | •              | :        | : | : | :                                       | :            | 5,629                                | 44,907   | 97.29                                   | 53.79   | 2,687              | 2,343   | 221               | 21,615                               |
| Total                                  | •           | •              | •        | : |   | :                                       | :            | 399,543                              | 868,942  | 95.02                                   | 64.44   | 67,347             | 224,003                                       | 53,970            | 852,563                              |
| By Railway dispensaries                | :           | *<br>J         | :        |   | : | :                                       | :            | 122                                  | 1,131  | 93.02                                   | 28.36   | 10                 | 19  | remi              | 200                                  |
| By private Medical Practitioners       |             | :              | <b>:</b> | : | ; | •                                       | •<br>•       | :                                    | :  | •                                       | •   | :                  | :   | :                 | •                                    |
| By Dispensary staff                    | :           | · •            | :        | : | : | :                                       | •            | 2,003                                | 12,960   | 91.30                                   | 55.73   | 425                | 902   | 243               | 3,912                                |
| By other agencies, Tea Gardens, Jails, |             | Hospital, etc. | :        | : | : | :                                       | :            | 29,066                               | 81,274   | 93.83                                   | <b>PL.09</b>  | 14,768             | 6,693   | 3,976             | 73,081                               |
| ,                                      |             |                |          |   |   |   |              | <u> </u>                             |  |   |   | ,                  |   | `                 |                                      |
| Total                                  | :           | •              | *        |   | • | :                                       | :            | 31,191                               | 95,365   | 93.68                                   | 64.65   | 15,203             | 7,617   | 4,230             | 77,193                               |
| Shillong Vaccine Depôt                 | 6<br>6<br>8 | *              |          | : | • | •                                       | :            |                                      | :  | :                                       | :   | :                  |   |                   |                                      |
| Grand total                            | •           | •              | •        | • |   | :                                       | •            | 430,734                              | 964,307  | 94.70                                   | 64.04   | 82,550             | 231,620                                       | 58,200            | 929,756                              |
|  |             |                |          |   |   |   |              |                                      | The second secon |   |   |                    |   |                   | The second second                    |

# STATEMENT No. III

Showing the number of persons primarily vaccinated with the number of those who were successfully vaccinated in each of the undermentioned official years

|                   | Number successfully vaccinated               | 1945      | 21    | 45,998      | 1,648        | 5,098     | 278,423     | :                    | :           | 28,899        | 26,606      | 256                                       | 40                   | 386,968 |
|-------------------|--|-----------|-------|-------------|--------------|-----------|-------------|----------------------|-------------|---------------|-------------|---|----------------------|---------|
|                   | retal number                                 | 61        | 20    | 57,323      | 2,003        | 5,405     | 30,828      | •                    | •           | 33,055        | 28,644      | 354                                       | 122                  | 430,734 |
| ,                 | Number successfully                          | 1945      | 19    | 73,067      | 1,741        | 5,298     | 348,830     | •                    | •           | 13,130        | 20,198      | 2,303                                     | 2,908                | 467,525 |
|                   | Total number                                 | 1944-1945 | 18    | 81,832      | 1,875        | 5,491     | 387,643     | :                    |             | 18,016        | 22,058      | 2,726                                     | 12,463               | 532,098 |
|                   | Number successfully vaccinated               | 1944      | 17    | 50,774      | 1,158        | 6,461     | 260,916     | :                    | :           | 12,362        | 54,919      | 242                                       | 1,055                | 387,887 |
|                   | Total number                                 | 1943-1944 | 16    | 55,015      | 1,328        | 6,791     | 286,808     | :                    | :           | 16,400        | 58,162      | 289                                       | 1,240                | 426,033 |
|                   | Number successfully vaccinated               | 1942-1943 | 15    | 45,467      | 825          | 5,258     | 292,881     | :                    | 1,800       | 13,732        | 32,686      | 29  | 287                  | 393,093 |
|                   | Total number                                 | 1942      | 14    | 58,903      | 2,437        | 5,856     | 333,769     | :                    | 1,900       | 17,468        | 35,322      | 108                                       | 353                  | 456,126 |
| nated             | Number successfully vaccinated               | 1941-1942 | 13    | 44,388      | 721          | 6,505     | 313,466     | :                    | :           | 16,311        | 36,145      | 197                                       | 398                  | 418,131 |
| marily vaccinated | Total number                                 | 1941      | 12    | 50,291      | 807          | 6,873     | 338,159     | :                    | :           | 20,240        | 38,111      | 234                                       | 429                  | 455,174 |
| Persons prima     | Number successfully vaccinated               | 1940-1941 | 111   | 47,645      | 1,415        | 6,922     | 331,699     | :                    | 66          | 15,065        | 32,520      | 51  | 428                  | 435,844 |
| Pers              | Total number                                 | 1940      | 10    | 52,832      | 1,644        | 7,284     | 353,740     | :                    | 66          | 18,720        | 33,908      | 29  | 459                  | 468,717 |
|                   | Number successfully vaccinated               | 1939-1940 | 6     | 37,356      | 2,007        | 7,746     | 338,620     | :                    | 388         | 14,028        | 29,717      | 61  | 488                  | 430,417 |
|                   | Total number                                 | 1939      | 00    | 44,460      | 2,694        | 8,369     | 365,770     | :                    | 394         | 17,386        | 31,910      | 76  | 512                  | 471,571 |
|                   | Total, number Number successfully vaccinated |           | . 1 . | 5,388       | 1,431        | 6,486     | 325,149     | :                    | 2,231       | 14,500        | 32,546      | r.  | 809                  | 418,444 |
|                   |  |           | 9     | 42,329      | 1,655        | 6,775     | 359,457     | :                    | 2,631       | 17,470        | 32,838      | 19  | 626                  | 468,860 |
|                   | Number successfully vaccinated               | 938       | 25    | 32,576      | 1,204        | 6,200     | 297,724     | :                    | 705         | 13,328        | 31,326      | 69  | 471                  | 383,701 |
|                   | Total number                                 | 1937-1938 | 4     | 39,926      | 1,696        | 9,776     | 237,418     | :                    | 782         | 16,955        | 33,855      | 122                                       | 209                  | 438,017 |
|                   | Number successfully vaccinated               | 1937      | ಜ     | 37,407      | 1,839        | 5,485     | 272,546     | •                    | 1,168       | 19,908        | 28,022      | 120                                       | 326                  | 366,821 |
|                   | Total number                                 | 1936-1937 | 2     | 49,047      | 2,388        | 5,897     | 323,815     | •                    | 1,302       | 24,445        | 30,628      | 152                                       | 343                  | 437,917 |
|                   |  |           | ,     | *           | :            | :         | :           | :                    | •           | •             | •           | Hospi-                                    | •                    | •       |
|                   | Agents                                       |           |       | :           | •            | •         | :           | •                    | •           | :             | :           | Police<br>seases ho                       | :                    | Total   |
|                   | Vaccinating Agents                           |           | 1     | :           | :            | :         | :           | nators               | :           | •             | :           | Hospital,                                 | nsaries              |         |
|                   | Vacc   |           |       | Government. | Dispensaries | Municipal | Local Funds | Licensed Vaccinators | Apprentices | Native States | Tea Gardens | Jails, Mental Hospital, Police Hospitals. | Railway Dispensaries |         |

STATEMENT No. IV.—Showing the number of Vaccinations performed in Municipal towns on children under one year of age during the year 1945

|                  |       |  | ne year of a                | among during   |  | 1   |
|------------------|-------|--|-----------------------------|--|--|---|
| Districts        |       | Towns .                                      | Number of births during the | Number of deaths a children under one year of the year | Number of successful vaccinations on children under one year during the year ending 31st March | Date of extension of Vaccina-<br>tion Act to town                             |
|                  |       | *  | Numb                        | Numl<br>child<br>the y                                 | Numl<br>tions<br>durin<br>Marc   |   |
| 1                | •     | 2  | 3                           | 4,   | 5  | 6   |
|                  |       | Silchar                                      | 288                         | 19   | 153  | 21st January 1892.  |
| Cachar           | •••   | Hailakandi                                   | 71                          | 7  | 4  | 10th November 1922.   |
|                  |       | Sylhet                                       | 691                         | 62   | 230  | 1st October 1882.   |
|                  |       | Habiganj                                     | 206                         | 31   | 35   | 11th December 1913.   |
|                  | . 1   | Sunamganj                                    | 291                         | 32   | 60   | 28th June 1915.   |
| Sylhet           | •••   | Karimganj                                    | 120                         | 11   | 59   | 27th July 1915.   |
| 9 .              |       | Srimangal                                    | 43                          | 4,   | 7  | 9th October 1936.   |
|                  |       | Maulvibazar                                  | 91                          | 3  | 61   | 16th April 1916.  |
| Khasi and Ja     | intia | Shillong                                     | 597                         | 31   | 200  | 21st June 1895.   |
| Hills.           |       | Total of Surma<br>Valley and Hill            | 2,398                       | 200  | 609  |   |
|                  |       | Division.  Dhubri                            | 346                         | 31   | 219  | 13th February 1891.   |
| <b>G</b> oalpara | •••   | Goalpara                                     | 277                         | . 39   | 120  | 12th November 1890.   |
|                  | ,     | Gauripur                                     | 130<br>479                  | 20<br>49   | 93<br>206  | 15th September 1922.<br>August 1882.  |
| **               |       | Barpeta                                      | 610                         | 28   | 182  | 29th October 1915.  |
| Kamrup           | •••   | Palashbari                                   | 117                         | 19   | 46   | 16th November 1927.   |
| D                |       | Nalbari<br>Tezpur                            | 62<br>294                   | 7 29   | 40<br>98   | 9th August 1940.<br>22nd May 1907.  |
| Darrang          | •••   | Mangaldai                                    | 40                          | 4  | 13   | 12th October 1916.  |
| Nowgong          | •••   | Nowgong                                      | 454                         | 56   | 279  | 7th April 1897.   |
|                  |       | Sibsagar                                     | 96                          | 4  | 40   | 21st Jánuary 1892.  |
| Sibaagan         |       | Jorhat                                       | 171                         | 7  | 43   | 12th April 1892.  |
| Sibsagar         | •••   | Golaghat                                     | 117                         | 4  | 30   | 24th March 1892.  |
|                  |       | Nazira                                       | 66                          | 8  | 90   | 1st December 1916.  |
| Lakhimpur        | •••   | Dibrugarh Doom Dooma Tinsukia North Lakhimpu | 366<br>52<br>123<br>r 46    | 46<br>12<br>17<br>5                                    | 154<br>31<br>59<br>13  | September 1883.<br>21st October 1918.<br>31st August 1932.<br>22nd June 1932. |
|                  |       | Total of Assam Valley Division.              | 3,846                       | 385  | 1,756  |   |
| 1                |       | Total for the province.                      | 6,244                       | 585  | 2,365  |   |

STATEMENT No. V.—Showing side by side the ratio (per 1,000 of population) of deaths from small-pox and the number of successful vaccinations during the ten years ending 1945

| Number of successful vaccinations. | 1945      | 21 | 70,410 | 261,298 | 32,675                    | 14,765     | 11,314       | 100,603  | 67,870 | 86,126  | 73,543  | 65,463   | 99,566    | 10,338       | 22,118         | 13,317                |                          | 929,756   |
|------------------------------------|-----------|----|--------|---------|---------------------------|------------|--------------|----------|--------|---------|---------|----------|-----------|--------------|----------------|-----------------------|--------------------------|-----------|
| Mario of deaths from xoq-lisms     | 19        | 20 | .10    | .26     | .02                       | •          | .01          | 10.      | -45    | 80.     | .19     | .91      | .23       | .02          | :              | .57                   | :                        | .03       |
| Number of successful vaccinations  | 45        | 19 | 89,361 | 450,475 | 45,368                    | 14,177     | 11,725       | 94,565   | 96,532 | 122,843 | 142,700 | 80,845   | 65,363    | 10,852       | 29,270         | 2,929                 | •                        | 1,257,055 |
| Matio of deaths from xoq-lisms     | 1944-1945 | 18 | 62.    | 2.01    | .05                       | :          | <b>**</b> 0. | .45      | . • 95 | .28     | 2.24    | .35      | 19.       | 96.          | .21            | :                     | :                        | 1.05      |
| Number of successful vaccinations  | 1944      | 17 | 98,196 | 231,091 | 45,940                    | 24,208     | 8,894        | 51,699   | 63,201 | 95,035  | 87,226  | 125,342  | 131,679   | 12,022       | 28,125         | 5,289                 | 380                      | 1,008,327 |
| Ratio of deaths from xoq-llsma     | 1943-1944 | 16 | .31    | .20     | .71                       | 1-17       | •            | .03      | .11    | 90.     | 69.     | .02      | .10       | 80.          |                | :                     | :                        | 11.       |
| Number of successful               | 1943      | 15 | 41,354 | 122,019 | 37,843                    | 15,755     | 9,230        | 42,280   | 56,343 | 65,911  | 33,611  | 50,423   | 45,702    | 11,197       | 23,427         | 3,277                 | 388                      | 588,760   |
| Ratio of deaths from small-pox     | 1942-1943 | 14 | .04    | 90.     | .03                       | .03        | .02          | .04      | .01    | 10.     | :       |          | :         | :            | :              | :                     | :                        | .03       |
| Number of successful vaccinations  | 1941-1942 | 13 | 36,211 | 130,789 | 41,282                    | 9,108      | 7,494        | 51,576   | 63,406 | 53,057  | 39,906  | 57,286   | 40,687    | 12,771       | 20,859         | 6,610                 | 009                      | 571,633   |
| Ratio of deaths from small-pox     | 1941      | 12 | .003   | *00     | .22                       | :          | :            | .003     | .05    | .01     | 70.     | 100.     | .001      |              | :              | 20.                   | :                        | .03       |
| Number of successful vaccinations  | 1941      | 11 | 26,986 | 137,160 | 48,875                    | 9,605      | 6,663        | 54,526   | 71,807 | 45,711  | 40,320  | 45,691   | 35,257    | 12,680       | 20,072         | 3,663                 | 1,553                    | 560,569   |
| . Ratio of deaths from small-pox   | 1940-1941 | 10 | .000   | .25     | .04                       | :          | :            | 600.     | 80.    | .02     | 90.     | •        | .01       | .005         | :              | :                     | :                        | 60.       |
| Number of successful vaccinations  | 1939-1940 | 6  | 25,321 | 213,437 | 33,128                    | 12,667     | 5,469        | 57,025   | 62,953 | 46,018  | 42,547  | 38,519   | 31,540    | 12,312       | 19,168         | 3,161                 | 396                      | 608,661   |
| Ratio of deaths from xoq-lisms     | 1939.     | 8  | :      | 99.     | :                         | :          | :            | •62      | .12    | .12     | .12     | 20.      | •01       | <b>*</b> 00. | **             | :                     |                          | -23       |
| Number of successful               | 1939      | 7  | 26,863 | 183,301 | 22,983                    | 12,015     | 6,508        | 61,342   | 53,034 | 45,829  | 45,930  | 40,405   | 30,011    | 11,766       | 19,973         | 2,273                 | 488                      | 562,681   |
| Ratio of deaths from xoq-llams     | 1938-1939 | 9  | •      | 48      | :                         | :          |              | .002     | 80.    | .04     | •54     | .03      | 10.       | :            | .01            | :                     | :                        | .19       |
| Mumber of successful               | 1938      | 22 | 33,434 | 167,689 | 18,384                    | 13,380     | 9,156        | 54,503   | 48,556 | 26,107  | 44,612  | 33,770   | 29,311    | 10,268       | 21,462         | 2,763                 | 366                      | 514,261   |
| Matio of deaths from xoq-lisms     | 1937-1938 | 4  | .11    | 99.     | •                         | 20         | :            | 800.     | .12    | •00     | .35     | 900.     | 900.      | .005         | .22            | :                     |                          | •25       |
| Number of successful vaccinations  | 1936-1937 | က  | 28,725 | 143,670 | 18,992                    | 13,140     | 3,083        | 65,624   | 55,250 | 49,973  | 52,967  | 42,484   | 29,148    | 11,484       | 30,042         | 2,780                 | 456                      | 547,920   |
| Ratio of deaths from small-pox     | 1936      | 7  | 90.    | .52     | :                         | •          | *            | .003     | -27    | 90.     | 90.     | .02      | .603      | :            | •39            | :                     | :                        | -12       |
|                                    |           |    | :      | :       | Hills                     | :          | :            | :        | :      | :       | :       | :        | :         | :            | :              | ract                  | Fract                    | **        |
|                                    |           | -  | :      | :       | l Jaintia                 | 82         | Ils          | :        | :      | :       | :       | :        | ır        | :            | State          | contier Ti            | Frontier .               | Total     |
| ,                                  | ٠.        |    | Cachar | Sylhet  | Khasi and Jaintia Hills . | Naga Hills | Lushai Hills | Goalpara | Kamrup | Darrang | Nowgong | Sibsagar | Lakhimpur | Garo Hills   | Manipur State. | Sadiya Frontier Tract | Balipara Frontier Tract. | To        |

STATEMENT NO. VI.—Showing the vaccinal conditions of Small-pox patients admitted to hospital?

during the year 1945.

|                  | by presen<br>more vacc     | as evidenced<br>ce of one or<br>cination cica-<br>ices | n successfully no vaccina-  | accinated or<br>ccessfully and<br>ciçatrix pre-  | cinated but   | Stated to h                | ave been suc-                   |
|------------------|----------------------------|--|---|--|---|----------------------------|---------------------------------|
| . Age            | Within the last five years | More than five years previously                        | Stated to have been successfulfy vaccinated but no vaccination cicatrix present | Stated to be unvaccinated or vaccinated unsuccessfully and no vaccination cicatrix present | Previously unvaccinated but vaccinated during incubation of Small-pox | Within the last five years | More than five years previously |
| 1                | 2                          | 3  | 4   | 5  | 6   | 7                          | 8                               |
| Under I yea      | ir                         | • • •  | •••   | • • •  | • • •   | · · · ›                    | • • •                           |
| 1 ,,             | •••                        | •••  |   |  | •••   | •••                        | •••                             |
| 2 ,,             | •••                        | •••  | •••   |  | •••   | •••                        | •••                             |
| 3 ,,             | •••                        | •••  | •••   | 1  | •••   | •••                        |                                 |
| 4 ,,             | •••                        | •••  |   | 1  | •••   |                            |                                 |
| 5 ,,             | •••                        | •••  | •••   | •••  |   |                            | •••                             |
| 5 ,,             | •••                        |  | 1   | ***  | •••   | •••                        | •••                             |
| 7 ,,             |                            |  | •••   | •••  | •••   | •••                        | •••                             |
| 8 ,,             |                            | •••  | •••   | 1  | •••   | •••                        | •••                             |
| 9 "              | •••                        | •••  | •••   | •••  | •••   | •••                        | •••                             |
| 10 ,,            |                            | •••  | •••   |  | •••   | •••                        | . •••                           |
| 11 "             |                            | •••  | •••   | 1  | •••   | •••                        | •••                             |
| .12 ,,           | •••                        | •••  | •••   | •••  | •••   | •••                        | •••                             |
| 13 "             | •••                        | •••  | •••   | •••  | •••   | •••                        | •••                             |
| 14 "             | 1                          | 1  | •••   | •••  | •••   | 1                          | •••                             |
| 15 ,,            | •••                        | 2  | 1   | 2  | 1 ,   |                            | •••                             |
| 20 ,,            | 2                          | 2  | 1   | 4  | 2   | 1                          | •••                             |
| 25 ,,            | •••                        | 3  | ***.  | • • •  | •••   | 2                          | •••                             |
| .30 ,,           | 1                          | 9  | •••   | 2  | 2   | 5                          | ***                             |
| 35 ,,            | 1                          | 2  | •••   | 1  | y •••   | •••                        | 1                               |
| 40 ,,            | •••                        | 6  | •••   |  | •••   | 4                          | 1                               |
| . 50 ,,          | •••                        | •••  | •••   | •••  | •••   | •••                        | 1                               |
| 60 ,,            | •••                        |  | •••   | •••  | •••   | ,                          | •••                             |
| 70 ,,            | •••                        | •••  | •••   | •••  |   | •••                        | •••                             |
| 80 and<br>upward |                            |  | •••   | •••  |   | •••                        | •••                             |
| Total            | 5                          | 25   | 3   | 13   | 5   | 13                         | 3                               |

3 . .

# **GOVERNMENT OF ASSAM**

# ORDERS BY THE GOVERNOR

# RESOLUTION ON THE PUBLIC HEALTH REPORT FOR 1945

Extract from the Proceedings of the Government of Assam in the Medical Department, Public Health Branch, No. MPH.194/46/6, dated the 6th January 1950.

READ:—The Public Health Report for 1945.

# RESOLUTION

1. Climatic conditions did not show any marked variation during the year. In most of the districts the rainfall was higher than the previous year. Local flooding occurred in all the plain districts except in Nowgong, Sibsagar and Lakhimpur causing considerable damage to crops in various parts of the Province. The price of common rice was much higher than the pre-war level. The prices of other foodgrains also were much higher in spite of the system of control and it was difficult on the part of the public to pull on even with increased incomes. There was no improvement in living and health conditions in the Province during the year.

2. The method of collection of vital statistics remained the same as in 1944. The birth-rate (16.76 per mille) during the year showed a slight fall from that (16.77) in the previous year; and the death-rate (13.37 per mille) showed a marked fall over the previous year's rate (16.74). All the districts except Cachar recorded death-rates below their quinquennial average. The highest death-rate (20.00) was recorded in the Cachar district and the lowest (7.24) in the Kamrup district. The highest death-rate (29.40) in rural areas was in Jaintiapur circle of Sylhet district and the lowest (1.03) in Sorbhog rural circle of the Kamrup district. The rate of child mortality showed an appreciable fall during 1945 (130.51) in comparison to that of previous year (161.95).

3. Of the prevalent diseases during the year, the chief were Fever, Diarrhoea, Smallpox, Cholera

and Respiratory diseases.

Fevers.—Deaths from fevers were mainly due to Malaria, Kala-azar and other diseases having fever as the predominant symptom. There was a decrease in the number of deaths from fever in 1945 as compared to that of 1944 the cause of which might be attributed to the subsidence of Malaria in parts of the district of Sylhet. The highest death-rate due to fever was recorded from the Goalpara district. As in previous years, quinine and other anti-malaria drugs, were freely distributed to indigent malaria patients in the badly affected areas throughout the province.

Kala-azar.—The incidence of Kala-azar showed a definite trend upwards during the year. The fight against Kala-azar had been waged unceasingly but during the war years, both survey and treatment centres had to be curtailed due to lack of doctors. During the year, insecticidal spraying against the sandfly could not be carried out due to lack of co-operation from the patients during cultivating and harvesting periods

and the work was confined to early detection and treatment of cases as before.

Cholera.—The incidence of Cholera was comparatively low during 1945, probably as a result of mass immunity affected by the continuous anti-cholera inoculation carried out amongst the people of the infected areas since the last severe epidemic of 1941-43. Propaganda was also continued in order to educate the people in methods of prevention and as a result, Cholera inoculation was becoming more popular smongst the rural masses.

Smallpox.—The incidence of Smallpox showed an appreciable decline in the Province as a whole during the year as compared to that of previous year. There were 3,838 deaths from Smallpox during the year as compared to 11,728 during 1944 and the quinquennial average of 3,092.

Dysentery and Diarrhoea.—The number of deaths from these diseases decreased during the year. A total

of 8,856 persons died from these diseases against 11,100 during 1944.

Leprosy.—A total of 795 leprosy cases was treated in the Public Health Department Dispensaries during the year as compared to 786 during 1944. As a result of a survey carried out by the Leprosy Officer in Singimari area in the Nowgong District and Trans-Dikhu area in the Naga Hills, a total of 293 cases of Leprosy (250 in Singimari and 43 in Trans-Dikhu) was detected. The special Leprosy Officer and another Licentiate of the Public Health Department were sent to a Refresher Course in Leprosy at the Calcutta School of Tropical Medicine during 1945. Short courses of instructions were conducted for Leprosy workers at the Government Leper Asylum, Sylhet. Missionary Leper Colonies continued to do excellent work during the year.

Tuberculosis.—The Provincial Tuberculosis Association made further progress in its activities as a result

of increased interest and generosity of the public.

Maternity and Child Welfare.—Maternity and Child Welfare work in the Province was still almost entirely under the ægis of the Red Cross Society which had branches in all districts. The Maternity and Child Welfare Centres at Shillong, Silchar, Tezpur, Jorhat and Sylhet did commendable work during the year.

Training of midwives was started during the year at the Ganesh Das Hospital, Shillong. One student was sent to Sir John Anderson Health School, Calcutta, for training as Health Visitor and 4 students were sent to the Dufferin Hospital, Calcutta, for Midwifery training. Ten Welfare Centres functioned during the year under report.

The Post-War Reconstruction Scheme for organising Maternity and Child Welfare work in the

Province under the Public Health Department was under the consideration of Government.

Food Adulteration.—The supply of foodstuffs was generally short due to the consequences of the war and adulteration was high. The revision of the Assam Pure Food Act so as to make it effective was

under the consideration of Government.

Sale of Quinine.—The sale of Quinine and its substitutes continued to remain under Government control. Distribution of drugs was centralised at the Public Health Laboratory, Shillong, under the supervision of the Director of Public Health. Quinine and other anti-malaria drugs were distributed throughout the Province. Distribution of Mepacrine Tablets through Post Offices in rural areas was also started from the 1st June, 1945.

Public Health Administration.—The creation of the Malaria Section of the Public Health Department to serve as a nucleus and headquarters for the anti-malaria organization was a notable event during the year. An experienced Chemist with a Master's degree in Chemistry and specially trained in food and water analytical and bacteriological work was appointed Public Analyst and Officer-in-Charge, Provincial Public Health Laboratory. Government hoped that the Director of Public Health would manage to get full co-operation and help of the seofficers in achieving the object of improving the Public Health activities of the Province.

Government take the opportunity of thanking Major T. D. Ahmed, I.M.S., for his efficient

administration of the Department.

Order.—Ordered that the Resolution be published in the Assam Gazette for general information.

By order of the Governor of Assam,

M. SULTAN,
Secretary to the Government of Assam in the Medical Department.

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